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ABSTRACT

This program guide identifies primary considerations in the organization, operation, and evaluation of a paramedic program. An occupational description and program content are presented. A curriculum framework specifies the exact course title, course number, levels of instruction, major course content, laboratory activities, special notes, major course concepts, and intended outcomes. Student performance standards are a resource list of job-specific competencies. The next section includes facility design criteria, suggested equipment and supplies, and information on safety. The section on implementation considers student admissions requirements, suggested instructional approach, teaching methods, evaluation criteria, student learning guides, and student organization participation. A section on professional considerations lists certification coverage for paramedic and professional organizations and support services. The final section lists the following instructional resources: an emergency medical services (EMS) bibliography and names and addresses of state EMS directors. A sample student learning guide is appended. A Career Merit Achievement Plan (Career MAP) displays the student performance standards required by the local education agency and documents students' level of achievement. (YLB)

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FLORIDA VOCATIONAL PROGRAM GUIDE FOR

PARAMEDIC

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PARAMEDIC

State of Florida
Department of Education
Tallahassee, Florida
Betty Castor, Commissioner
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July 1989

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CONTENTS

Introduction 1

Program Content and Structure 3

Occupational Description 3
Job Title and Description 4
Licensing Requirements 5
Field Internship 6
Clinical Affiliations 7
Certification 8
Curriculum Framework and Student Performance Standards 9

Facilities 29

Design Criteria 29
Suggested Equipment and Supplies 30
Safety 43

Program Implementation 45

Student Admissions Requirements 45
Suggested Instructional Approach 46
Suggested Teaching Methods 46
Evaluation Criteria 47
Certificate of Completion 48
Student Learning Guides 48
Student Organization Participation 49

Professional Development 51

Teacher Certification 51
Other Qualifications 51
Technical Updating 51
Professional Organizations and Support Services 51

Instructional Resources 59

Emergency Medical Services Bibliography 60
State EMS Directors 83

Appendix: Sample Student Learning Guide 95

INTRODUCTION

The Florida Vocational Program Implementation Guide can be applied to all vocational programs in Florida. This program guide, however, was developed specifically for the Paramedic program to provide information that will be useful to local school-district and community-college administrators, faculty and instructors, program advisory committee members, regional coordinating councils, and others charged with the responsibility of offering vocational education training for paramedics. The final planning, implementation, and evaluation of any educational program, however, must be done within the context of local conditions and local need. This publication will serve to identify the major concerns that should be considered in the organization, operation, and evaluation of a vocational education program.

Vocational education has evolved to meet the needs of students desiring to pursue selected careers or vocations. In general, vocational education is designed to provide programs, services, and activities that are realistic in light of present and future employment opportunities. In recent years, applications of science and technology have expanded rapidly, increasing the education and training required of personnel. The new technologies require many additional technical supportive staff to carry out both standardized and specialized procedures.

Today, vocational education is an increasingly viable option for students. The Florida Department of Education (DOE) shares with business, government, and industry the determination to provide opportunities for upward mobility to as many Floridians as possible. For this to become a reality, exemplary career educational programs must be created and these programs must be consistent throughout the state.

State Board of Education Administrative Rule 6A-10.24: Articulation between universities, community colleges, and school districts outlines steps and guidelines that will bring about a systematic interrelationship among Florida institutions offering similar or related courses and programs. The rule states, in part, that

> when a student transfers among postsecondary vocational-technical centers, community colleges, and universities, the receiving institution shall award credit for courses satisfactorily completed at the previous institutions when the courses are judged to be equivalent to courses offered at the receiving institution.

This program guide helps ensure that equivalency. Throughout Florida, vocational programs, if implemented according to the criteria described in this document, will help many citizens fill an important place in our state and national work force.

PROGRAM CONTENT AND STRUCTURE

The content of the Paramedic program is based on occupational competencies and employability skills required to prepare students for certification as a Paramedic in accordance with standards given in Chapter 10D-66 of the Florida Administrative Code. The basic content of this program is described in the Florida Curriculum Framework and Student Performance Standards (SPSs).

This section includes a description of the Paramedic training program, job titles and descriptions in Paramedic occupations, information on licensure, and certification requirements. The Curriculum Framework and Student Performance Standards for the Paramedic program are also included. Local education agencies (LEAs) may modify SPSs to meet local needs.

Occupational Description

Health Occupations is a group of planned, specialized instructional programs structured to enable students to enter, to advance, and to refine prescribed competencies required for employment in a cluster of health occupations or in a specific occupation chosen as a career objective.

The Paramedic is qualified in advanced emergency care and services by a competency-based educational program of clinical, didactic, and practice instruction and by a field internship. The competencies include but are not limited to the recognition, assessment, and management of medical emergencies under the direction of a physician. The Paramedic primarily provides prehospital emergency care to acutely ill or injured patients by ambulance service and mobile advanced life support units under medical command authority, and secondarily in other appropriate settings under physician control.

A Paramedic is a person who has successfully completed both a basic and advanced Emergency Medical Technician educational program and is certified or licensed by the appropriate governmental agency.

A competency-based educational program in advanced life support is a program of instruction which equals or exceeds the educational goals and objectives of the National Standard Emergency Medical Technician-Paramedic Course.

Other appropriate settings include a facility, such as a clinic, an emergency department, or the private practice of an individual duly licensed to practice medicine in all its branches.

Competency, knowledge, awareness of one's ability and limitations, the ability to relate to people, and a capacity for calm and reasoned judgment while under stress are essential attributes of the Paramedic. The Paramedic respects the individuality and privacy of patients and their family members.

Given the knowledge, skills, and field experience, the Paramedic is competent in:

1. Recognizing a medical emergency; assessing the situation; managing emergency care and, if needed, extrication; coordinating his or her efforts with those of other agencies involved in the care and transportation of the patient, and establishing rapport with the patient and significant others to decrease their state of crisis.

2. Assigning priorities of emergency treatment and recording and communicating data to the designated medical command authority.

3. Initiating and continuing emergency medical care under medical control, including the recognition of presenting conditions and initiation of appropriate invasive and noninvasive therapies (e.g., surgical and medical emergencies, airway and respiratory problems, cardiac dysrhythmias, cardiac pulmonary arrest, and psychological crises), and assessing the response of the patient to that therapy.

4. Exercising personal judgment in case of interruption in medical direction caused by communications failure or in cases of immediate life-threatening conditions. (Under these circumstances, the Paramedic provides such emergency care as has been specifically authorized in advance.)

5. Directing and coordinating the transport of the patient by selecting the best available method(s) in conjunction with medical command authority.

6. Recording in writing or dictation the details related to the patient's emergency care and the incident.

7. Directing the maintenance and preparation of emergency care equipment and supplies.

The basic skills and attitudes related to the Paramedic are indicated as intended outcomes in the Curriculum Framework and Student Performance Standards in this section.

Job Title and Description

Job Title: Paramedic

Description:

The Paramedic provides emergency care to acutely ill or injured patients in primarily prehospital settings which are under physician direction. According to Chapter 410, F.S., the Paramedic's responsibilities include administering first-aid treatment to and transporting sick, injured, or otherwise helpless persons to a medical facility, working as a member of an emergency medical team; responding to instructions from the emergency medical dispatcher and driving specially equipped emergency vehicles to a specified location; monitoring communication equipment; removing victims from the scene of the accident or catastrophe; determining the nature and extent of injury; communicating with professional center personnel to obtain and record information on

victims; assisting in controlling crowds; and assisting professional medical personnel in emergency treatment administered at a medical facility.

Licensing Requirements

According to Chapter 401, F.S., the following licensing requirements are recommended for the Paramedic:

Age: 18

Education:

1. Must be currently certified in Cardiopulmonary Resuscitation (CPR) by having successfully completed the American Heart Association Cardiopulmonary Resuscitation (CPR) Basic Rescuer Course or the American Red Cross Cardiopulmonary Resuscitation (CPR) Basic Life Support Course, or an American Heart Association Advanced Cardiac Life Support (ACLS) course.

2. Successfully complete the U.S. Department of Transportation course or its equivalent at a Department-approved training center. Paramedic certification requires completion of "paramedic" course. EMT certification requires completion of "EMT Basic Training" course.

3. Have the Department-approved training center provide certification of successful completion of the course. This certification must be validated and signed by the responsible course coordinator and the program medical director and be received by the Department no less than thirty days prior to the scheduled certification examination date.

Experience/Internship:

The Paramedic shall be certified as an Emergency Medical Technician and perform as a state-certified Emergency Medical Technician for at least one year (as specified in the U.S. Department of Transportation National Training Course Emergency Medical Technician-Paramedic curriculum).

Examination:

For the particular occupational category in which certification is being sought, an individual must:

1. Successfully complete a comprehensive written and practical examination administered by the Department-approved training center; and

2. Successfully complete the state of Florida certification examination administered by the Department.

Specific:

Eligibility for both Paramedic and EMT certification requires that an individual must be free from addiction to alcohol or any narcotic drugs; and be free from any physical or mental defect or disease which might impair the ability to function or which might jeopardize the health of the patient.

Reciprocity: None

Continuing Education Requirements:

Because of the vast variety of medical emergencies, the Paramedic is required to continue his or her education. The EMT must obtain 10 CEUs during each certification period. The following continuing education mechanisms are also suggested in the Emergency Medical Technician-Paramedic National Standard Curriculum:

- -- Periodic clinical experience in the hospital units under direct supervision to maintain skills
- -- Periodic case review of calls by EMS personnel and hospital personnel at a group meeting
- -- Periodic seminars sponsored by the appropriate EMS agency
- -- Periodic seminars sponsored by recognized organizations, such as the American College of Emergency Physicians and the Emergency Department Nurses Association
- -- Formal Refresher Training Program
- -- Formal evaluation (director observation and/or practical) by the Medical Director of the following EMT-Paramedic skills:
  - (1) History taking
  - (2) Physical examination (1 and 2 assessment)
  - (3) Cardiopulmonary Resuscitation (CPR)--one and two rescuer
  - (4) Infant resuscitation; Rx of airway obstruction
  - (5) Esophageal obturator placement and/or endotracheal intubation
  - (6) Bag-valve mask and bag-valve-tube ventilation
  - (7) Interpretation of oscilloscopic and hardcopy electrocardiograms, including monitored arrest and defibrillation techniques
  - (8) Spinal immobilization, including application of cervical collar, short and long boards
  - (9) Fracture immobilization, including traction splint
  - (10) Voice and ECG telemetry communications procedures, including actions during communications failure
  - (11) Intravenous therapy
  - (12) Parenteral drug administration
  - (13) Application and removal of pneumatic antishock trousers
  - (14) OB delivery procedures

Field Internship

The field internship is a period of supervised experience on an intensive care vehicle which provides the student a progression of increasing patient care responsibilities and which proceeds from observation to working as a member of a team. There

should be provision for physician evaluation of student progress in acquiring the desired competencies to be developed through this experience.

The intensive care vehicle should have telecommunication with medical command authority, and equipment and drugs necessary for advanced life support. The student must be under the direct supervision and observation of a physician, a nurse qualified in emergency medicine, or an EMT-Paramedic approved by the medical command authority. The experience should occur within an emergency medical care system that involves EMT-Paramedics in the provision of advanced emergency care services and that maintains a defined program of continuing education.

The initial position of the student on the prehospital care team should be that of observer. After progressing through record keeping and participation in actual patient care, the student may finally function as the patient care leader. However, the student should not be placed in the position of being a necessary part of the EMT-Paramedic patient care team. The EMT-Paramedic team should function without any necessary use of a student who may be present.

Clinical Affiliations

Clinical affiliations should be established and confirmed in written affiliation agreements with institutions and agencies that provide medical direction to and continuing assessment of student performance.

The applied practice component of the education should occur within an emergency medical service system that delivers EMT-Paramedic services under medical direction, and that has telemetric communications, all necessary drugs and equipment, an evaluation system to ensure quality in the care provided, and an organized program of continuing education for its personnel. Where EKG radio transmission capability is not available from the prehospital scene to the medical control facility, there should be the capability to provide EKG monitoring of the patient at the scene, with a permanent chart record being made for later evaluation.

In each component of clinical training, there should be an appropriate ratio of students to instructors to ensure effective learning. To facilitate the development of their clinical competencies, students shall have access to patients who present common problems encountered in the delivery of advanced emergency care in adequate numbers and in distribution by sex and age. Activities assigned to students in the clinical setting should be educationally efficient and effective in achieving the program's objectives.

Clinical experience must include direct patient care responsibilities which are necessary for completion of the program's objectives. Documentation of the clinical affiliation and agreement to allow students to carry out patient care should be kept on file. The patients to whom the students are exposed should have disease and injury conditions comparable with those the student will experience in the prehospital care situation. As such, it will not be necessary to have access to hospital units. If a unit is not available for the clinical experience, then adjustments should be made to ensure that the activities proposed for each unit are included in the activities of other units, if possible.

Before successful clinical completion, the student should receive supervised experience in each of the following clinical areas as outlined in the Emergency Medical Technician-Paramedic National Standard Curriculum:

- Emergency department
- Intensive care unit; coronary care unit
- Operating room; recovery room
- Intravenous team (if available)
- Pediatric unit
- Labor suite; delivery room; newborn nursery
- Psychiatric unit or crisis center
- Morgue or cadaver lab

Certification

Upon successful completion of the Paramedic program, the student shall receive some type of certification. A written examination and the demonstration of practical skills are necessary for certification and/or licensure as a Paramedic.

To be eligible for certification as a paramedic and to take the paramedic certification examination, an individual shall comply with the provisions of Chapter 401, Part III, F.S., and shall apply on HRS Form 544, February 1987, Application for Paramedic Examination and Certification, and HRS Form 1583, March 1986, Profile Data Form for Emergency Medical Services Examination. Applications and the required fee must be received by the department no later than 30 calendar days prior to the date of the certification examination for which the applicant desires to be scheduled.

CURRICULUM FRAMEWORK PROGRAM AREA: Health Occupations

FLORIDA DEPARTMENT OF EDUCATION EFFECTIVE DATE: July, 1989

PROGRAM TITLE: Paramedic

CODE NUMBER: Secondary _____ Postsecondary EMS0219

Florida CIP 43.0202

SECONDARY SCHOOL CREDITS: _____ COLLEGE CREDITS: _____
POSTSECONDARY ADULT VOCATIONAL CREDITS: _____

APPLICABLE LEVEL(S): ___7-9 ___ 9-12 _x_ Other 30, 31
___ Postsecondary Adult Vocational _____ Postsecondary Vocational

CERTIFICATION COVERAGE: NURSING ED @5 PRAC NURSE 7
EMR MED TE 7 PARAMEDIC 7

I. **Major Concepts/Content.** The purpose of this program is to prepare students as Paramedics. The program must be approved by the Department of Health and Rehabilitative Services, Office of Emergency Medical Services, and the curriculum must adhere to the U.S. Department of Transportation (DOT) Emergency Medical Technician-Paramedic National Standard Curriculum.

The content includes, but is not limited to, the six divisions of the DOT Curriculum: prehospital environment, preparatory, trauma, medical, ob/gyn/neonatal, and behaviors. The Paramedic provides emergency care to acutely ill or injured patients in primarily prehospital settings which are under physician direction. Reinforcement of basic skills in English, mathematics, and science appropriate for the job preparatory programs occurs through vocational classroom instruction and applied laboratory procedures or practice. This program prepares students for certification as a Paramedic in accordance with standards given in Chapter 10D-66 of the Florida Administrative Code.

II. **Laboratory Activities.** Laboratory facilities and equipment must be provided. Laboratory activities must be correlated with didactic instruction, reinforced in the clinical area, and supervised by an instructor.

III. **Special Note.** An appropriate student organization for providing the development of professionalism and leadership skills should be available. These organizations may include HOSA, Health Occupations Students of America, Inc., or an organization of the school's choice. This suggestion was made in light of the nature of EMT and Paramedic students, who include the adult learner already involved in

unions or EMS professional groups as well as the newly graduated high school senior.

Emergency Medical Technician (EMT) program completion/certification is required for admittance into the program.

The procedures performed by a Paramedic shall be performed under the direction of a licensed physician with appropriate emergency experience.

In accordance with Section 233.0695, F.S., the minimum basic skills grade level required for this postsecondary adult vocational program is: Mathematics 9.0, Language 11.0. This grade level number corresponds to a grade-equivalent score obtained on a state-designated basic skills examination.

The typical length of this program for the average achieving student is 600 hours. A student may be enrolled in either a certificate or an associate degree program.

The Student Performance Standards for Emergency Medical Technician-Paramedic were adapted and condensed from the U.S. Department of Transportation (DOT) Emergency Medical Technician-Paramedic National Standard Curriculum Instructor's Lesson Plans, which are incorporated by cross-reference. Administrators and instructors should refer to the DOT materials for additional details.

NOTE: When the word demonstrate is used in a standard, it shall require that actual performance and operation be accomplished, unless otherwise indicated. Simulation, explanation, and illustration may be substituted when actual operation is not feasible.

IV. **Intended Outcomes.** After successfully completing this program, the student will be able to:

01. Demonstrate knowledge of the paramedic profession.
02. Describe Emergency Medical Services (EMS) systems.
03. Describe medical/legal considerations.
04. Describe and demonstrate EMS communications systems.
05. Demonstrate rescue techniques and extrication.
06. Describe mass casualty incidents (MCIs).
07. Describe and manage causes of stress.
08. Use medical terms.
09. Demonstrate general patient assessment and initial management.
10. Manage airway and ventilation.
11. Assess and manage shock.
12. Demonstrate knowledge of pharmacology and administer medications.
13. Assess and manage trauma emergencies.
14. Assess and manage burn injuries.
15. Assess and manage respiratory emergencies.
16. Assess and manage cardiovascular emergencies.
17. Assess and manage endocrine emergencies.
18. Assess and manage neurological emergencies.
19. Assess and manage digestive, genitourinary, and reproductive emergencies.
20. Assess and manage anaphylaxis emergencies.

21. Assess and manage toxicological, alcohol, and drug abuse emergencies.
22. Assess and manage infectious diseases.
23. Assess and manage environmental injuries.
24. Assess and manage geriatric emergencies.
25. Assess and manage pediatric emergencies.
26. Assess and manage the gynecologic patient.
27. Assess and manage the obstetric patient.
28. Assess and manage the neonate.
29. Assess and manage behavioral emergencies.
30. Demonstrate employability skills.
31. Demonstrate knowledge of sexually transmitted diseases (STDs), including AIDS.

STUDENT PERFORMANCE STANDARDS | EFFECTIVE DATE: Recommended 1989

PROGRAM AREA: Health Occupations | SECONDARY NUMBER: _____

PROGRAM TITLE: Paramedic | POSTSECONDARY NUMBER: EMS0219

01.0 DEMONSTRATE KNOWLEDGE OF THE PARAMEDIC PROFESSION--The student will be able to:

- 01.01 Define the role and responsibilities of the paramedic. (1.1.1-1.1.2)
- 01.02 Describe and contrast the differences between the various levels of training, from Emergency Medical Technician (EMT) to Paramedic. (1.1.3)
- 01.03 Describe ethics, professionalism, and health-care professional. (1.1.4; 1.1.9-1.1.10)
- 01.04 Identify whether a particular activity is ethical/unethical, legal/illegal, and professional/unprofessional in specific patient-care situations. (1.1.5-1.1.8; 1.1.11-1.1.12)
- 01.05 List current state requirements for paramedic certification and recertification. (1.1.13; 1.1.17)
- 01.06 Define continuing education, certification, licensure, and registration. (1.1.13-1.1.15)
- 01.07 Discuss Chapter 401, Florida Statutes, and Chapter 10D-66, Florida Administrative Code. (1.1.16)
- 01.08 State the major purposes of a national association, a national registry, and professional journals. (1.1.18-1.1.20)
- 01.09 State the benefits of paramedics teaching in their community. (1.1.21)

02.0 DESCRIBE EMERGENCY MEDICAL SERVICES (EMS) SYSTEMS--The student will be able to:

- 02.01 Define and describe Medical Control and physician responsibility. (1.2.4-1.2.5)
- 02.02 Discuss prehospital stabilization of patients. (1.2.3)
- 02.03 Discuss the general differences between management of trauma and of medical patients. (1.2.2)
- 02.04 Define and discuss protocols and their development. (1.2.12-1.2.13)
- 02.05 Describe the relationship between prehospital care and total patient care, including the emergency department and hospital specialty departments. (1.2.2; 1.2.7; 1.2.11)
- 02.06 Describe the continuum of patient care and the responsibilities of the Paramedic within the transfer of patient responsibility. (1.2.16-1.2.17; 1.2.21)
- 02.07 Discuss the development, implementation, and control of an EMS system. (1.2.10; 1.2.14-1.2.15)

02.08 Discuss the response of the EMS system including system access, dispatcher responsibilities, patient evaluation, medical command, and patient responsibility. (1.2.1)

02.09 Discuss the promulgation of national standards such as KKK ambulance standards, and the involvement of groups such as ASTM, NCSEMSTC, American College of Surgeons, American Medical Association Joint Review Committee, and the U.S. Department of Transportation. (1.2.8-1.2.9)

02.10 Discuss the various paramedic-physician relationships. (1.2.6; 1.2.19)

02.11 Describe retrospective evaluation of patient care including run report review, continuing education, skill practice, and skill deterioration. (1.2.22-1.2.23)

02.12 Discuss the Paramedic's initial responsibilities when arriving on the scene. (1.2.18)

03.0 DESCRIBE MEDICAL/LEGAL CONSIDERATIONS--The student will be able to:

03.01 Discuss the scope and significance of current national and Florida laws and administrative rules relating to the Paramedic. (1.3.1)

03.02 Discuss medical-legal concepts relating to the Paramedic. (1.3.2; 1.3.5; 1.3.6)

03.03 Discuss the need for accurate medical documentation and record keeping. (1.3.3)

03.04 Discuss the extent to which force and restraint may be used to protect the patient, the Paramedic, and third parties. (1.3.7)

03.05 Identify those circumstances that require the Paramedic to report incidents to law enforcement and/or other appropriate authorities. (1.3.4)

04.0 DESCRIBE AND DEMONSTRATE EMS COMMUNICATIONS SYSTEMS--The student will be able to:

04.01 Describe the phases of communication necessary to complete a typical EMS event. (1.4.1)

04.02 Define and describe essential communication terms and equipment. (1.4.3; 1.4.7-1.4.12)

04.03 Describe various EMS communication systems and the advantages and disadvantages of each. (1.4.2; 1.4.6; 1.4.14)

04.04 Describe factors affecting interference, range and clarity of base, and vehicle and portable radio communications. (1.4.4-1.4.5; 1.4.13; 1.4.19-1.4.20)

04.05 Describe the functions and responsibilities of the Federal Communications Commission (FCC). (1.4.15)

04.06 Describe the functions and responsibilities of the EMS dispatcher. (1.4.16)

04.07 Describe purposes and methods of verbal communication of patient information to the hospital and to the physician. (1.4.17; 1.4.22-1.4.23; 3.1.95)

04.08 Organize a patient presentation in the proper order for radio transmission to the physician. (1.4.24; 1.4.29; 3.1.96)

04.09 Describe the importance of written medical protocols and the written EMS run report. (1.4.21; 1.4.25)

04.10 Demonstrate the proper use of portable and mobile transmitter/receivers in a real or simulated patient situation. (1.4.26-1.4.29)
04.11 Discuss uses of biotelemetry equipment.
04.12 Complete a written EMS report based on a real or simulated patient situation. (1.4.30)

05.0 DEMONSTRATE RESCUE TECHNIQUES AND EXTRICATION--The student will be able to:

05.01 Identify possible hazards when given a description of a scene and describe the procedures for handling the hazards. (1.5.2)
05.02 Identify and/or describe the equipment used and the techniques necessary for gaining access to, packaging, extricating, and transporting patients trapped within a vehicle or other confinement. (1.5.1; 1.5.6)
05.03 Describe the integration of patient care into the process of patient disentanglement and rescue. (1.5.7)
05.04 Identify proper response in the presence of hazardous materials and name proper hazardous-materials authorities that should be notified. (1.5.8)
05.05 Manage scene and safe patient access. (1.5.3-1.5.5; 1.5.9-1.5.10)
05.06 Discuss removal and transport of the patient from the scene. (1.5.11; 3.1.127)
05.07 Demonstrate the procedures and operation of equipment used for gaining access to, packaging, extricating, and transporting patients trapped or confined in a vehicle or other type of entrapment. (none)
05.08 Demonstrate techniques for lifting and handling patients with and without spine injuries and/or other special injury problems utilizing the specialized equipment found on a rescue vehicle. (3.1.122-3.1.123)
05.09 Demonstrate techniques for lifting and moving patients utilizing typical patient handling/carrying devices. (3.1.122-3.1.123)

06.0 DISCUSS MASS CASUALTY INCIDENTS (MCIs)--The student will be able to:

06.01 Define MCI and when it should be declared. (1.6.1; 1.6.3)
06.02 Describe the preplanning phase and response planning. (1.6.4-1.6.5)
06.03 Discuss MCI communications. (1.6.2)
06.04 Describe the components of special resources. (1.6.6)
06.05 Describe the function of scene command, scene triage, and the transferring command function. (1.6.7-1.6.9)
06.06 Describe section and staging management and a system for patient identification. (1.6.10-1.6.11)
06.07 Discuss on-scene medical control. (1.6.12)

07.0 DESCRIBE AND MANAGE CAUSES OF STRESS--The student will be able to:

07.01 Define stress and discuss its causes and phases. (1.7.1-1.7.3)
07.02 Describe common physiologic responses to stress, its effects, and typical defense mechanisms. (1.7.4; 1.7.6)
07.03 Describe factors that determine whether anxiety is a positive or negative response. (1.7.5)

07.04 Describe behavior that is a manifestation of stress in patients, patients' families, and the Paramedic. (1.7.7)
07.05 Identify and describe common causes of job-related stress and various techniques of Paramedic stress management. (1.7.8-1.7.9)
07.06 Describe the stages of the grief process and common needs of the patient, the family, and the Paramedic in dealing with death and dying. (1.7.10-1.7.11)
07.07 Describe common management techniques used by the Paramedic when a patient is dead or dying. (1.7.12)
07.08 Discuss areas of controversy in prehospital care involving death and dying. (1.7.13)

08.0 USE MEDICAL TERMS--The student will be able to:

08.01 Define and use relevant medical terms. (2.1.1)
08.02 Identify and use common anatomical medical terms. (2.1.2)
08.03 Identify and use medical abbreviations. (2.1.3)
08.04 Identify and define common prefixes, suffixes, and word roots. (2.1.4-2.1.5)
08.05 Use a medical dictionary. (2.1.6)

09.0 DEMONSTRATE GENERAL PATIENT ASSESSMENT AND INITIAL MANAGEMENT--The student will be able to:

09.01 Establish priorities of care based on threat to life and describe the treatment modalities for the management of these conditions. (2.2.1-2.2.2; 2.2.11-2.2.12)
09.02 Describe the primary and secondary survey. (2.2.3-2.2.10; 2.2.13; 2.2.42-2.2.43; 2.2.45-2.2.47)
09.03 Describe the anatomy, physiology, and pathophysiology of the airway and lungs and its anatomical structures. (2.2.14-2.2.18; 2.2.24; 2.3.1-2.3.3)
09.04 Describe the use of adjuncts in airway management. (2.2.21; 2.3.3)
09.05 Describe advanced methods of airway management. (2.2.19-2.2.20; 2.2.22; 2.3.4-2.3.8)
09.06 Explain the significance of protection of the cervical spine in airway management. (2.2.23)
09.07 Explain pulmonary ventilation and gas exchange across the alveolar-capillary membrane. (2.2.26)
09.08 Describe the pathophysiology of open and closed pulmonary injuries. (2.2.25; 2.2.27)
09.09 Discuss the techniques for evaluating effectiveness of ventilation.
09.10 Describe the anatomy and physiology of the heart and the cardiovascular system. (2.2.32)
09.11 Describe the pathophysiology of cardiac arrest. (2.2.33-2.2.34)
09.12 Describe the mechanisms of evaluating the effectiveness of perfusion. (2.2.35)
09.13 Describe hemorrhage control and its benefits and complications. (2.2.39-2.2.40)
09.14 Assess neurological status. (2.2.41)

09.15 Discuss the pathophysiology of shock. (2.2.44)
09.16 Define the trauma score and its usefulness. (2.2.48)
09.17 Demonstrate obtaining a relevant patient medical history. (2.2.49)
09.18 Describe how a patient is packaged and stabilized for transportation to the hospital. (2.2.50-2.2.55)
09.19 Discuss procedures for hospital selection, the transportation phase, and patient monitoring en route to the hospital. (2.2.56-2.2.61; 3.1.91; 3.1.93)
09.20 Perform a rapid assessment. (2.2.62)
09.21 Perform a secondary survey. (2.2.63; 3.1.106)
09.22 Demonstrate cardiopulmonary resuscitation (CPR). (2.2.66-2.2.68; 4.1.26; 4.2.63-4.2.64; 4.11.34; 5.1.68)

10.0 MANAGE AIRWAY AND VENTILATION--The student will be able to:

10.01 Describe and discuss techniques of advanced airway management to include intubation and surgical procedures. (2.2.38; 2.3.1-2.3.2; 3.1.11; 3.1.13)
10.02 Demonstrate methods of airway management on adult, child, and intact manikins both manually and with adjunctive equipment. (2.2.28-2.2.31; 2.2.36-2.2.37; 2.2.64-2.2.65)
10.03 Demonstrate methods for assessing continued adequacy of airway management and ventilation when using advanced airway devices. (2.2.28-2.2.31; 2.2.36-2.2.37; 2.2.64-2.2.65; 3.1.97-3.1.100; 4.1.25-4.1.26; 4.11.33)
10.04 Demonstrate the use of portable and fixed suction devices for oropharyngeal and tracheal suctioning. (2.3.3)

11.0 ASSESS AND MANAGE SHOCK--The student will be able to:

11.01 Identify and describe the causes, pathophysiology signs, symptoms, clinical manifestations, and management of shock. (2.4.1; 2.4.4-2.4.5; 2.4.14; 2.4.19; 2.4.28; 2.4.30)
11.02 Describe fluids, fluid transport, and fluid and electrolyte imbalances. (2.4.9; 2.4.12-2.4.13; 2.4.15; 2.4.17-2.4.19)
11.03 Discuss resuscitation of the shock patient. (2.4.2; 2.4.3; 2.4.6-2.4.8)
11.04 Discuss the hemodynamics of the cardiovascular system. (2.4.10-2.4.11)
11.05 Discuss differences in intravenous (IV) fluid composition and their implications in fluid administration. (2.4.16)
11.06 Describe baroreceptors and their effect on blood pressure and perfusion. (2.4.23-2.4.25)
11.07 Describe compensated and uncompensated shock. (2.4.26-2.4.27)
11.08 Discuss evaluation of the patient's perfusion status. (2.4.31; 3.1.11)
11.09 Define and discuss acid-base balance. (2.4.20-2.4.22)
11.10 Describe indications and contraindications of the pneumatic anti-shock garment. (2.4.35-36; 2.4.42)
11.11 Discuss the methods of fluid replacement and the advantages and disadvantages of each. (2.4.37-2.4.39)
11.12 Demonstrate, in order of priority, the steps in shock resuscitation. (2.4.32-2.4.34; 2.4.40)
11.13 Demonstrate the use of the pneumatic anti-shock garment. (2.4.12; 2.4.41; 3.1.110)

11.14 Demonstrate proper technique of setting up IV for administration. (2.4.40)
11.15 Demonstrate proper technique of peripheral and external jugular venous cannulation on the adult, child, and infant patient. (2.4.40; 3.1.109)
11.16 Demonstrate proper techniques for troubleshooting an IV. (2.4.40)
11.17 Calculate fluid administration rates for intravenous fluids utilizing a variety of administration sets. (2.4.40; 2.5.25-2.5.27)

12.0 DEMONSTRATE KNOWLEDGE OF PHARMACOLOGY AND ADMINISTER MEDICATIONS--The student will be able to:

12.01 Discuss the various origins and forms of drugs. (2.5.1; 2.5.5-2.5.6)
12.02 Discuss the various names of a drug (i.e., generic, trade, official, chemical). (25.2)
12.03 Identify those agencies responsible for regulating drugs and the rationale for regulation. (2.5.2)
12.04 Demonstrate use of the Physicians Desk Reference. (2.5.3-2.5.4)
12.05 Identify local and systemic effects of drugs. (2.5.8)
12.06 List and evaluate effects of various factors on the action of drugs. (2.5.9)
12.07 Discuss the methods of drug absorption. (2.5.11-2.5.12)
12.08 Define and use relevant pharmacology terms. (2.5.13-2.5.14)
12.09 Describe and discuss the apothecary and metric systems and convert between and within the systems. (2.5.16-2.5.21; 2.5.23-2.5.24)
12.10 Describe the various types of drugs and routes of administration. (25.15.31-25.15.32)
12.11 Calculate fractional drug dosages. (2.5.20; 2.5.22; 2.5.24)
12.12 State the advantages and disadvantages of subcutaneous, intramuscular, IV, and transtracheal injections. (4.5.38)
12.13 Demonstrate the proper procedure for intramuscular, subcutaneous, intravenous piggyback, intravenous bolus, and transtracheal medication administration. (2.5.28-2.5.30; 2.5.33-2.5.34; 2.5.37; 2.5.39; 2.5.40-2.5.41)
12.14 Demonstrate the proper procedure for withdrawing medication from a glass vial and a glass ampule. (2.5.35-2.5.36)

13.0 ASSESS AND MANAGE TRAUMA EMERGENCIES--The student will be able to:

13.01 Describe the general care and transportation of the trauma patient. (3.1.1-3.1.2; 3.1.94)
13.02 Describe the priorities of trauma care and triage with multiple patients. (3.1.3-3.1.4)
13.03 Describe the anatomy, physiology, pathophysiology assessment, and management of trauma to all regions of the human body. (13.1.7-13.1.13; 13.1.16-13.1.20; 13.1.24; 13.1.26-13.1.28; 13.1.31; 13.1.39; 13.1.44-13.1.47; 13.1.49-13.1.80; 13.1.84-13.1.89; 13.1.107)
13.04 Describe and demonstrate methods of hemorrhage control. (2.2.39-2.2.40; 3.1.25; 3.1.30; 3.1.32)
13.05 Describe neurological examination, assessment, pathophysiology, and management. (3.1.48; 3.1.90)
13.06 Demonstrate rapid on-scene management of the trauma patient. (3.1.38-3.1.39)
13.07 Describe the components of a complete prehospital history and the significance of each. (3.1.29; 3.1.40-3.1.41)

13.08 Describe various types of splints that are used for immobilization of fractures and dislocations, their use, and the advantages and disadvantages of each. (3.1.34; 3.1.80; 3.1.82)
13.09 Describe the short and long backboard, the various state-of-the-art substitutes available, and their specific uses. (3.1.83)
13.10 Describe various systems designed for scoring the severity of injuries of the trauma patient. (3.1.2; 3.1.92)
13.11 Identify and describe the use of a trauma score in quantifying patient condition. (3.1.92)
13.12 Demonstrate advanced methods of airway management and ventilation in the trauma patient. (3.1.14-3.1.15; 3.1.21-3.1.23; 3.1.101-3.1.105; 3.1.129-3.1.130)
13.13 Demonstrate decompression of a tension pneumothorax. (3.1.108)
13.14 Demonstrate application of pneumatic antishock garment (MAST). (3.1.30; 3.1.110)
13.15 Describe and demonstrate physical examination of the trauma patient. (3.1.5-3.1.6; 3.1.33-3.1.37; 3.1.42-3.1.43; 3.1.113-3.1.120)
13.16 Demonstrate a neurological examination as performed on the trauma patient. (3.1.112; 3.1.121)
13.17 Demonstrate immobilization of the cervical spine. (3.1.126; 3.1.128)
13.18 Demonstrate splinting techniques. (3.1.124-3.1.125; 3.1.131-3.1.134)

14.0 ASSESS AND MANAGE BURN INJURIES--The student will be able to:

14.01 Describe the anatomy, physiology, pathophysiology, and assessment of the integumentary system. (3.2.1-3.2.2)
14.02 Discuss the movement of body fluids between plasma, interstitial compartments, and intracellular compartments. (3.2.3-3.2.4)
14.03 Describe the assessment and management of the burn victim. (3.2.9; 3.2.12)
14.04 Describe the pathophysiology and treatment of burn shock. (3.2.5)
14.05 Describe and discuss the major causes, classifications, and categories of burn. (3.2.6-3.2.8)
14.06 Describe and discuss the method of calculating percentages of body surface area burned and various formulas for calculating fluid resuscitation. (3.2.10-3.2.11)
14.07 Describe the assessment and management of inhalation injury. (3.2.14-3.2.15)
14.08 Demonstrate management of the burn victim with and without associated injuries. (3.2.13)

15.0 ASSESS AND MANAGE RESPIRATORY EMERGENCIES--The student will be able to:

15.01 Describe the anatomy and physiology of the respiratory system and define appropriate medical terms. (4.1.1-4.1.6; 4.1.8; 4.1.10-4.1.11; 4.1.13; 4.1.16; 4.1.20)
15.02 Identify the normal partial pressures of oxygen and carbon dioxide in the alveoli, arterial and venous blood, and factors that affect those levels. (4.1.7; 4.1.14-4.1.15)
15.03 Describe the normal and COPD respiratory drives. (4.1.9)

15.04 Identify the pharmacology, actions, indications, precautions, dosages, contraindications, and side effects of typical respiratory drugs for the adult and pediatric patient and demonstrate methods of administration. (4.1.23; 4.1.31)
15.05 Discuss the signs, symptoms, and pathophysiology of conditions affecting the respiratory system. (4.1.22; 4.1.24)
15.06 Demonstrate inspection, auscultation, and palpation of the thorax. (4.1.27)
15.07 Identify normal and abnormal lung sounds. (4.1.10; 4.1.20; 4.1.28)
15.08 Obtain a history and assess patients with respiratory complaints. (4.1.17-4.1.18; 4.1.21; 4.1.29-4.1.30)
15.09 Describe the management of patients with respiratory problems.

16.0 ASSESS AND MANAGE CARDIOVASCULAR EMERGENCIES--The student will be able to:

16.01 Describe the anatomy, physiology, and pathophysiology relevant to cardiovascular disease and emergencies. (4.2.1-4.2.12; 4.2.14-4.2.15; 4.2.19; 4.2.21; 4.2.32-4.2.33; 4.2.35-4.2.36)
16.02 Identify the pharmacology, actions, indications, precautions, methods of administration, dosages, contraindications, and side effects of common emergency cardiovascular drugs (AHA/ACLS). (4.2.38)
16.03 Identify complications of intracardiac injections. (S4.2.56)
16.04 Describe innervation of the heart, sympathetic and parasympathetic stimulation, blockade, and effects on the heart rate. (4.2.13-4.2.15)
16.05 Discuss myocardial electrical physiology. (4.2.17-4.2.21; 4.2.24; 4.2.42)
16.06 Describe signs, symptoms, and common chief complaints of patients with cardiac conditions. (4.2.25-4.2.26; 4.2.34-4.2.35)
16.07 Identify and describe the historical information, specific observations, and physical findings to be evaluated in the cardiac patient. (4.2.27-4.2.28; 4.2.30-4.2.31)
16.08 Identify actions, uses, and side effects of common prescription drugs relative to cardiac problems. (4.2.29; 4.2.39)
16.09 Discuss the etiology of cardiac arrest in adults and pediatric patients. (4.2.37)
16.10 Discuss concepts of electrocardiogram (ECG) monitoring, types and causes of artifacts, and rhythm analysis format. (4.2.40; 4.2.42; 4.2.45-4.2.48)
16.11 Identify the wave forms, intervals, and normal values relative to an ECG. (4.2.23; 4.2.43-4.2.44; 4.2.47)
16.12 Describe a 12-lead ECG and compare to continuous monitoring. (4.2.22; 4.2.41)
16.13 Describe the etiology, clinical significance, and ECG characteristics of cardiac dysrhythmias. (4.2.49-4.2.51)
16.14 Describe the indications for use of a precordial thump, vagatonic maneuvers, synchronized cardioversion, and defibrillation, and discuss energy recommendations for adult and pediatric patients. (4.2.53-4.2.55)
16.15 Identify wave forms, artifacts, and dysrhythmias on Lead II or MCL1 rhythm strips and oscilloscope. (S4.2.60-S.4.2.61)

16.16 Obtain history, assess, and manage dysrhythmias or cardiac condition. (4.2.35-4.2.36; 4.2.51-4.2.52; S4.2.57-S.4.2.59; S4.2.61-S4.2.62; S4.2.68; 4.2.74)
16.17 Demonstrate application of ECG electrodes and obtain a sample Lead II or MCL1 rhythm strip. (S4.2.65)
16.18 Use defibrillator paddles for Lead II monitoring. (S4.2.66)
16.19 Troubleshoot a poor ECG rhythm. (S4.2.67)
16.20 Perform a precordial thump, vagatonic maneuvers, synchronized cardioversion, defibrillation, and external cardiac pacing. (S4.2.69-S4.2.73)
16.21 Use a mechanical CPR device. (S4.2.75)

17.0 ASSESS AND MANAGE ENDOCRINE EMERGENCIES--The student will be able to:

17.01 Identify and describe the anatomy, physiology, and pathophysiology of the endocrine system. (4.3.1-4.3.11; 4.3.18; 4.3.24-4.3.25)
17.02 Describe the assessment and management of endocrine emergencies. (4.3.29-4.3.31)
17.03 Identify and discuss the significance of the historical information, observations, and physical findings in the patient with endocrine disorders. (4.3.12-4.3.17; 4.3.19-4.3.23; 4.3.26-4.3.28)
17.04 Identify common prescription drugs that a patient with endocrine problems might take and the implications of each.
17.05 Identify the pharmacology, actions, indications, precautions, methods of administration, dosages, contraindications, and side effects of relevant drugs.
17.06 Obtain a history and assess and manage patients with endocrine problems.
17.07 Administer relevant drugs.

18.0 ASSESS AND MANAGE NEUROLOGICAL EMERGENCIES--The student will be able to:

18.01 Identify and describe the anatomy, physiology, and pathophysiology of the neurological system. (4.4.1-4.4.13; 4.4.17)
18.02 Describe the assessment and management of neurological disorders. (4.4.17)
18.03 Identify the actions, uses, and side effects of common prescription drugs relative to neurological problems. (4.4.14-4.4.15; 4.4.17)
18.04 Identify common prescription drugs that a patient with neurological problems might take and the implications of each.
18.05 Identify the pharmacology, actions, indications, precautions, methods of administration, dosages, contraindications, and side effects of relevant drugs. (4.4.18)
18.06 Describe and use the Glasgow Coma Scale. (4.4.16; 4.4.19; 4.4.26)
18.07 Describe and differentiate various types of seizures and their phases. (4.4.20-4.4.22)
18.08 Obtain history and assess patients with neurological disorders. (4.4.23-4.4.25; 4.4.27)
18.09 Manage patients with neurological emergencies. (4.4.17; 4.4.24-4.4.25)

19.0 ASSESS AND MANAGE DIGESTIVE, GENITOURINARY, AND REPRODUCTIVE EMERGENCIES--The student will be able to:

19.01 Describe the anatomy, physiology, and pathophysiology of the digestive, genitourinary, and reproductive systems. (4.5.1-4.5.9; 4.5.11; 4.5.16-4.5.17; 4.5.27)
19.02 Identify and describe the significance of the historical information, observations, and physical findings in the patient with digestive, genitourinary, and reproductive disorders. (4.5.10; 4.5.12-4.5.14; 4.5.18; 4.5.20; 4.5.22; 4.5.28-4.5.29)
19.03 Describe the assessment and treatment of digestive, genitourinary, and reproductive system disorders. (4.5.15; 4.5.19; 4.5.21; 4.5.23)
19.04 Identify common prescription drugs that a patient with digestive, genitourinary, and reproductive problems might take and the implications of each.
19.05 Discuss the basic principles, types, and complications of dialysis. (4.5.24-4.5.25)
19.06 Discuss the assessment and management of the dialysis patient, to include vascular access. (4.5.26)
19.07 Obtain a history and assess patients with digestive, genitourinary, and reproductive problems. (4.5.29-4.5.31)
19.08 Manage patients with digestive, genitourinary, and reproductive emergencies. (4.5.29; 4.5.32)

20.0 ASSESS AND MANAGE ANAPHYLAXIS EMERGENCIES--The student will be able to:

20.01 Describe the anatomy, physiology, pathophysiology, causes, signs and symptoms, assessment, and management of anaphylaxis. (4.6.1-4.6.5)
20.02 Identify and discuss the significance of historical information, observations, and physical findings in the patient with a potential anaphylaxis. (4.6.6; 4.6.9)
20.03 Identify the pharmacology, actions, indications, precautions, methods of administration, dosages, contraindications, and side effects for the adult and pediatric patient for relevant drugs. (4.6.8)
20.04 Obtain a history and assess patients with potential anaphylaxis. (4.6.7; 4.6.10)
20.05 Manage patients with anaphylactic emergencies. (4.6.7)
20.06 Administer relevant drugs to the adult and pediatric patient. (4.6.10)

21.0 ASSESS AND MANAGE TOXICOLOGICAL, ALCOHOL, AND DRUG ABUSE EMERGENCIES--The student will be able to:

21.01 Discuss toxicological emergencies. (4.7.1)
21.02 Identify and discuss the routes of entry of toxic substances into the body. (4.7.2)
21.03 Discuss the role of Poison Control Centers in the EMS system and in the management of patients with toxicological emergencies. (4.7.3)
21.04 Define abuse terms, identify commonly abused drugs, and describe their effects. (4.7.17-4.7.18)

21.05 Describe the anatomy, physiology, pathophysiology assessment, and management of patients with toxicological emergencies, animal or insect bites, stings, drug overdose, and alcoholism. (4.7.4-4.7.15; 4.7.19; 4.7.21-4.7.22)

21.06 Discuss the incidence of alcoholism, drug abuse, and substance abuse in the United States. (4.7.16; 4.7.20)

21.07 Obtain a history, assess, and manage patients with toxicological emergencies, animal or insect bites, stings, drug overdose, and alcoholism. (4.7.4-4.7.15; 4.7.19; 4.7.21-4.7.23)

21.08 Administer relevant drugs. (4.7.5; 4.7.7; 4.7.9-4.7.16)

21.09 Apply a constricting band. (4.7.24)

22.0 ASSESS AND MANAGE INFECTIOUS DISEASES--The student will be able to:

22.01 Define terms and conditions relative to infectious diseases. (4.8.2-4.8.3; 4.8.5-4.8.9; 4.8.11-4.8.12; 4.8.23-4.8.24; 4.8.27; 4.8.35; 4.8.41; 4.8.47; 4.8.55; 4.8.60; 4.8.64; 4.8.68; 4.8.74-4.8.75; 4.8.80; 4.8.83; 4.8.86)

22.02 Describe the anatomy, physiology, pathophysiology, causes, mode of transmission, incubation period, assessment, and management of typical infectious and communicable diseases and parasites. (4.8.4; 4.8.10; 4.8.13-4.8.22; 4.8.25-4.8.26; 4.8.28-4.8.30; 4.8.31-4.8.32; 4.8.36-4.8.39; 4.8.42-4.8.85; 4.8.48-4.8.53; 4.8.56-4.8.59; 4.8.61-4.8.63; 4.8.65-4.8.67; 4.8.69-4.8.72; 4.8.76-4.8.78; 4.8.81-4.8.82; 4.8.84-4.8.85; 4.8.87-4.8-88)

22.03 Identify and discuss the significance of historical information, observations, and physical findings in the patient with infectious/ communicable disease or parasites. (4.8.33-4.8.34)

22.04 Practice Universal Precautions according to established Centers for Disease Control (CDC) guidelines. (4.8.40; 4.8.46; 4.8.54; 4.8.73; 4.8.79; 4.8.90; 4.8.92)

22.05 Discuss procedures for reporting and follow-up after exposure to a communicable disease, according to established standards. (4.8.91)

22.06 Describe methods used to disinfect equipment and vehicles involved with an infectious patient. (4.8.93)

22.07 Obtain a history and assess patients with infectious/communicable disease or parasites. (4.8.94-4.8.95)

22.08 Manage patients with infectious/communicable disease or parasites.

22.09 Identify at-risk behavior which promotes the spread of AIDS.

22.10 Identify the public education necessary to combat the spread of sexually transmitted diseases.

23.0 ASSESS AND MANAGE ENVIRONMENTAL INJURIES--The student will be able to:

23.01 Describe and discuss homeostasis, methods of body temperature regulation, the role and methods of thermoregulation, and heat dissipation and retention in pathologic circumstances. (4.9.1; 4.9.5-4.9.7; 4.9.16; 4.9.21-4.9.22)

23.02 Identify and discuss the significance of historical information, observations, and physical findings in the patient with hypothermic or hyperthermic disorders. (4.9.1-4.9.2; 4.9.10; 4.9.13; 4.9.15; 4.9.17-4.9.18; 4.9.20; 4.9.25-4.9.26; 4.9.30-4.9.33)

23.03 Describe the anatomy, physiology, pathophysiology, causes, signs and symptoms, assessment, and management of hypothermic or hyperthermic disorders. (4.9.4; 4.9.8-4.9.9; 4.9.11-4.9.12; 4.9.14; 4.9.18-4.9.19; 4.9.23; 4.9.27-4.9.29; 4.9.34-4.9.35)

23.04 Describe the anatomy, physiology, pathophysiology, signs and symptoms, assessment, and management of near-drowning. (4.9.36-4.9.40)

23.05 Identify and discuss the significance of historical information, observations, and physical findings in the patient with a near-drowning emergency.

23.06 State the factors affecting survivability and probability of successful resuscitation in near-drowning patients.

23.07 Identify the common types and sources of ionizing radiation. (4.9.41)

23.08 Identify sources of normal background radiation. (4.9.42)

23.09 Describe the anatomy, physiology, pathophysiology, signs and symptoms, assessment, and management of acute and/or chronic exposure to ionizing radiation. (4.9.43-4.9.44)

23.10 Identify and discuss the significance of historical information, observations, and physical findings in the patient with acute and/or chronic exposure to ionizing radiation. (4.9.43)

23.11 Discuss the safety of allied health personnel and patients related to exposure to ionizing radiation. (4.9.45)

23.12 Discuss procedures relating to radiological incidents for notification of appropriate health officials. (4.9.44)

23.13 List the common medical problems associated with scuba or underwater diving accidents. (4.9.47)

23.14 Describe the anatomy, physiology, pathophysiology, signs and symptoms, assessment, and management of decompression sickness, overpressure accidents, pneumomediastinum, air embolism, nitrogen narcosis, and subcutaneous emphysema. (4.9.46-4.9.54)

23.15 Identify and discuss the significance of historical information, observations, and physical findings in patients with decompression sickness, overpressure accidents, pneumomediastinum, air embolism, nitrogen narcosis, and subcutaneous emphysema, and the significance of each. (4.9.47)

23.16 Obtain a history and assess patients with hypothermic and hyperthermic problems.

23.17 Discuss management of patients with hypothermic or hyperthermic complaints.

23.18 Obtain a history and assess patients with exposure to ionizing radiation.

23.19 Discuss management of patients with exposure to ionizing radiation.

23.20 Obtain a history and assess patients with near-drowning emergencies.

23.21 Discuss management of patients with near-drowning emergencies.

23.22 Obtain a history and assess patients with scuba diving emergencies.

23.23 Discuss management of patients with scuba diving emergencies.

24.0 ASSESS AND MANAGE GERIATRIC EMERGENCIES--The student will be able to:

24.01 Identify the physical, social, and psychological differences between youth and the elderly. (4.10.1-4.10-3)
24.02 Identify and discuss the significance of historical information, observations, and physical findings in the geriatric patient with acute and/or chronic medical problems. (4.10.1; 4.10.4-4.10-6)
24.03 Identify and discuss illnesses/complaints that require special consideration in the elderly. (4.10.3-4.10.4; 4.10.6-4.10.7; 4.10.18-4.10-19; 4.10.21-4.10.28; 4.10.30-4.10.33)
24.04 Describe the anatomy, physiology, pathophysiology, assessment, and management of common geriatric illnesses. (4.10.8-4.10.19; 4.10.21-4.10.70)
24.05 Obtain a history and assess geriatric patients. (4.10.6-4.10.7)
24.06 Treat geriatric patients. (4.10.21; 4.10.29; 4.10.34; 4.10.38; 4.10.51; 4.10.55; 4.10.59-4.10.61; 4.10.64-4.10.70)
24.07 Discuss geriatric abuse. (5.10.71-4.10.74)
24.08 Discuss the components and objectives of a gerontology program. (4.10.75-4.10.76)

25.0 ASSESS AND MANAGE PEDIATRIC EMERGENCIES--The student will be able to:

25.01 Identify the general goals of management of the pediatric patient. (4.11.2; 4.11.4)
25.02 Discuss specific historical information and its sources in evaluating the pediatric patient. (4.11.3; 4.11.5)
25.03 Discuss by age groups the relevant aspects of normal growth and development, personality development, relationship to parents, history factors, common illnesses, and accidents. (4.11.1; 4.11.6-4.11.7)
25.04 Describe Sudden Infant Death Syndrome (SIDS), current theories, assessment and management, and the immediate needs of the family. (4.11.8; 4.11.12)
25.05 Describe the characteristics of the child abuser and the abused child. (4.11.13-4.11.14)
25.06 Discuss the assessment and management of the potentially abused child, including important historical information and management of the family in the child abuse situation. (4.11.15-4.11.16)
25.07 Recognize and report child abuse. (4.11.17)
25.08 Describe the anatomy, physiology, pathophysiology, assessment, and management of common pediatric disorders. (4.11.18-4.11.22; 4.11.24)
25.09 Identify the pediatric dosage for relevant drugs (AHA/ACLS). (4.11.25)
25.10 Discuss and demonstrate techniques for airway maintenance in the pediatric patient. (4.11.23; 4.11.26-4.11.27; 4.11.35)
25.11 Discuss and demonstrate techniques and sites for intravenous infusion in the pediatric patient. (4.11.18; 4.11.29; 4.11.36)
25.12 Obtain history and assess the pediatric patient. (4.11.30-4.11.32)

26.0 ASSESS AND MANAGE THE GYNECOLOGIC PATIENT--The student will be able to:

26.01 Describe the anatomy and physiology of the female reproductive system. (5.1.1-5.1.2)
26.02 Identify and discuss the significance of historical information, observations, and physical findings to be evaluated in the patient's gynecological problems. (5.1.3-5.1.5)
26.03 Describe the pathophysiology and management of gynecological disorders. (5.1.5-5.1.8)
26.04 Describe potential causes, assessment, and management of trauma to the external genitalia. (5.1.8)
26.05 Describe the assessment and management of a sexual assault victim. (5.1.9-5.1.10)
26.06 Obtain a history and assess and manage the patient with a gynecologic problem. (5.1.5-5.1.6; 5.1.8-5.1.10; 5.1.58)

27.0 ASSESS AND MANAGE THE OBSTETRIC PATIENT--The student will be able to:

27.01 Define obstetrical terminology. (5.1.14)
27.02 Describe the process of fetal development and circulation. (5.1.1-5.1.2; 5.1.11-5.1.13)
27.03 Identify and discuss the significance of historical information, observations, and physical findings in the obstetric patient. (5.1.15-5.1.16)
27.04 Identify and describe early signs and symptoms of pregnancy. (5.1.17)
27.05 Describe potential causes, assessment, and management of trauma to the pregnant mother and the fetus. (5.1.18)
27.06 Discuss the effects of pregnancy on preexisting medical conditions. (5.1.19; 5.1.33)
27.07 Describe the anatomy, physiology, pathophysiology, causes, assessment, and management of obstetric emergencies. (5.1.14; 5.1.20-5.1.22; 5.1.24-5.1.25)
27.08 Describe Braxton-Hicks contractions. (5.1.23)
27.09 Discuss the progression of labor. (5.1.26-5.1.28)
27.10 Discuss factors that influence transport decisions for the patient in labor. (5.1.29)
27.11 Describe a normal cephalic delivery. (5.1.30; 5.1.39)
27.12 Discuss the pathophysiology, assessment, and management of delivery complications. (5.1.31-5.1.32; 5.1.34-5.1.38; 5.1.41-5.1.43)
27.13 Identify the pharmacology, actions, indications, methods of administration, dosages, contraindications, and side effects of oxytocin. (5.1.40)
27.14 Obtain a history and assess the obstetric patient. (5.1.60-5.1.61)
27.15 Treat obstetrical patients, including assisting with childbirth. (5.1.62-5.1.63; 5.1.65-5.1.66)
27.16 Administer oxytocin. (5.1.62)

28.0 ASSESS AND MANAGE THE NEONATE--The student will be able to:

28.01 Describe anatomy, physiology, pathophysiology, assessment, and routine management of the neonate. (5.1.44)
28.02 Describe the mechanisms, effects, and treatment of hypothermia in the neonate. (5.1.45-5.1.47; 5.1.57)
28.03 Define the parameters, numerical values utilized, and the procedure for Apgar scoring. (5.1.48)
28.04 Describe and demonstrate stimulation of and CPR for the distressed neonate. (5.1.49-5.1.50; 5.1.52-5.1.54)
28.05 Identify observations and physical findings to be evaluated in the neonate. (5.1.55)
28.06 Identify the problems and equipment requirements for transportation of the neonate. (5.1.56)
28.07 Obtain a history, assess, and manage the neonate. (5.1.67)
28.08 Administer oxygen to the neonate. (5.1.51)
28.09 Suction the neonate using DeLee Suction and bulb syringe. (5.1.64)
28.10 Calculate Apgar score. (5.1.66)

29.0 ASSESS AND MANAGE BEHAVIORAL EMERGENCIES--The student will be able to:

29.01 Define behavioral emergency. (6.1)
29.02 Discuss factors that may alter the emotional status of the ill or injured. (6.1.2; 6.1.6; 6.1.13)
29.03 Discuss reasons and methods of reassuring the patient experiencing an emotional crisis. (6.1.3-6.1.5; 6.1.9; 6.1.14)
29.04 Discuss verbal communication techniques useful in managing the emotionally disturbed patient. (6.1.7)
29.05 Discuss means to insure the safety of the Paramedic. (6.1.8)
29.06 Discuss circumstances when bystanders and relatives should be removed from the scene. (6.1.10)
29.07 Discuss factors which increase the risk of suicide and behaviors that are indicators of an impending suicide attempt. (6.1.6; 6.1.11-6.1.12)
29.08 Discuss the techniques that facilitate the systematic gathering and reporting of information about the disturbed patient. (6.1.15; 6.1.23)
29.09 Discuss techniques that are useful in managing the effects of crisis situations on the Paramedic. (6.1.16-6.1.17; 6.1.24-6.1.25)
29.10 Discuss techniques that are useful in redirecting anxiety in relatives and bystanders. (6.1.18)
29.11 Discuss appropriate action of the Paramedic when confronted with an uncontrollable, armed patient. (6.1.19)
29.12 Discuss those situations in which the EMT-Paramedic may forcibly restrain or transport a patient. (6.1.22)
29.13 Discuss and demonstrate techniques for restraining the violent patient. (6.1.20)
29.14 Discuss and demonstrate techniques useful in protecting the Paramedic when attacked by a violent patient. (6.1.21)
29.15 Obtain a history, assess, and manage patients with behavioral emergencies. (none)

30.0 DEMONSTRATE EMPLOYABILITY SKILLS--The student will be able to:

30.01 Conduct a job search.
30.02 Secure information about a job.
30.03 Identify documents that may be required when applying for a job.
30.04 Complete a job application.
30.05 Demonstrate competence in job interview techniques.
30.06 Identify or demonstrate appropriate responses to criticism from employer, supervisor, or other persons.
30.07 Identify acceptable work habits.
30.08 Demonstrate knowledge of how to make job changes appropriately.
30.09 Demonstrate acceptable employee health habits.

31.0 DEMONSTRATE KNOWLEDGE OF SEXUALLY TRANSMITTED DISEASES (STDs), INCLUDING AIDS--The student will be able to:

31.01 Distinguish between fact and fallacy about the transmission and treatment of sexually transmitted diseases.
31.02 Identify community resources and services available to the victims of sexually transmitted diseases.
31.03 Identify at-risk behaviors, which promote the spread of AIDS and the public education necessary to combat the spread of sexually transmitted diseases.
31.04 Apply infection-control techniques designed to prevent the spread of sexually transmitted diseases to the care of all patients, following Centers for Disease Control (CDC) guidelines.

FACILITIES

This section includes facility design criteria, a list of suggested equipment and supplies, and safety for the Paramedic program.

Design Criteria

The facility should provide space and learning stations to enable the instruction to meet program objectives. **Florida State Board of Education Rule 6A-2.32** specifies the size of space and occupancy design criteria that school districts or community colleges must follow in planning and designing facilities for Paramedic programs. According to this rule, facility sizes recommend for a one-time occupancy design capacity of 15 students are as follows:

	Minimum (sq. ft.)	Normal (sq. ft.)	Maximum (sq. ft.)
Laboratory	84	88	92
Classroom, related instruction	500	525	550
Storage, Material	240	250	260
Teacher Planning	150	155	160
Reference	95	100	100
Telemetry	1025	1080	1135

District schools and community colleges desiring to vary from size and occupancy design criteria may do so by providing justification in the educational specifications documents, which are subject to the approval of the Office of Educational Facilities Construction.

It is recommended that the facility be designed to the maximum square footage whenever possible if growth is anticipated. Attrition should be considered when determining student capacity. Space is allotted based on the number of students admitted. Should the average number of students admitted per year be more than 15, additional space will be allotted. This space can be added to existing space to increase room size or be utilized as necessary to enhance student learning (e.g., additional classrooms, learning lab, etc.).

A double sink with work ledge space provided with hot and cold running water is necessary in demonstration and laboratory areas. Electrical outlets are needed for both 220 and 110 volts. A stove and refrigerator unit, which is optional for nutrition classes, will require a 220-volt outlet. Several 110 outlets should be available throughout the classroom and demonstration areas for media and electrical medical equipment.

Effective vocational education needs to be taught in a facility with equipment similar to that which will be found in a modern work situation. The facility shall be well lit to assure adequate viewing of visual aids and demonstrations. Heating and ventilation of the facility shall assure student and instructor comfort. The lecture area shall contain a lectern for lesson plans, notes, and references. A large table shall be provided

in the classroom for displaying equipment and references. A chalkboard, projection screen, and stand for charts shall be located in the lecture area. The student area shall contain tables or chairs with writing surfaces for taking notes. Chairs shall be arranged for unobstructed visual access to the instructor, demonstration area, screen, etc., and to provide convenient physical access to the practice area. Sufficient space shall be provided for accommodating slide and movie projectors.

Each practice area shall be large enough to accommodate 15 students working individually or in groups of varying sizes, as well as the equipment and medical supplies used in practicing procedures. Tables shall be provided for equipment and supplies and for use during certain procedures. The overall approach to planning for the paramedic education suite should be from the point of view that it will, as far as possible, be designed to train personnel who will function as an extension of the physician and medical institution in providing prehospital care to acutely ill or injured patients. Additionally, the facility should, whenever possible, be located close to or within existing health occupations education programs to facilitate sharing instructional equipment and classroom space.

Parking should be located relatively close to the facilities because of frequent off-campus travel.

Suggested Equipment and Supplies

Equipment	# Required by DOT	Capital Outlay	Reusable	Disposable
Anatomical Models				
Carolina Human Brain Specimen		X	X	
Carolina Human Heart Specimen		X	X	
Carolina Human Tongue/Larynx Specimen		X	X	
Carolina Human Spinal Cord Specimen		X	X	
Carolina Human Normal/Diseased Artery Specimen		X	X	
Heart model		X	X	
Female reproductive organs		X	X	
Bypass heart		X	X	
Anatomical torso (counter-top)	1	X	X	
Brainstem		X	X	
Skeletorso (skeleton with organs) or complete human skeleton		X	X	
Don Jake Saunders Heart Model		X	X	
Human larynx model		X	X	
Laerdal Cut-Away Thorax		X	X	
Head section model		X	X	
Nasogastric intubation model		X	X	
Fetal circulatory model		X	X	

Equipment	# Required by DOT	Capital Outlay	Reusable	Disposable
Anatomical Charts				
Nystrom Set		X	X	
Skeletal System				
Muscular System				
Nervous/Circulatory Systems				
Circulation, Heart, Skin				
Human Ear and Eye				
Chest/Abdomen Viscera				
Head, Mouth, Throat				
Digestive System, Endocrine System				
Lymphatic System				
Genitourinary System				
Peter Bachin Anatomical Charts		X	X	
Spenco Wall Charts (1 each)		X	X	
Diseases of Digestive System				
Diseases of Respiratory System				
Diseases of Female Pelvis System				
Diseases of Male Pelvis System				
Diseases of Central Nervous System				
Diseases of Musculoskeletal System				
Urinary System				
Heart				
Manikins				
Mr. Hurt		X	X	
Med-E-Train		X	X	
Rescue Med-E-Train		X	X	
Resusci-Anne/Electronics	4	X	X	
Recording Anne		X	X	
Resusci-Anne/Inflatable		X	X	
Resusci-Baby/Electronics		X	X	
Resusci-Baby		X	X	
*MegaCode Mac		X	X	
Sterilization Kits				X
Sterilizing Solution				X
Recording Paper				X
Mask Form Punch		X	X	
Box Plastic Mask Forms		X	X	
Resusci-Anne lungs				X
Recording Anne lungs				X
Resusci-Baby lung/stomach				X

Equipment	# Required by DOT	Capital Outlay	Reusable	Disposable
Signal box with recorder		X	X	
Signal box without recorder		X	X	
Recording Anne paper holder (rep part)		X	X	
"A" batteries				X
"D" batteries				X
Resusci-Anne Repl airway tubes				X
Recording Anne Airway tubes (repl)				X
Airway				
Oral airway sets with case	5			X
Bitesticks				X
5-in-1 connectors				X
Oxygen connecting tubing				X
Oxygen face mask	10			X
Nasal cannula	20			X
Pocket mask	10			X
Pocket mask with oxygen port				X
Non-rebreathing oxygen masks				X
Partial rebreathing masks				X
Trach masks				X
Venturi masks	10			X
Pediatric oxygen mask				X
Nasal mask				X
Laerdal bag-valve assembly (adult)		X	X	
Laerdal bag-valve assembly (pediatric)		X	X	
Other adult bag-valve assembly	2	X	X	
Hope bag-valve assembly (adult)		X	X	
Hope III bag-valve assembly		X	X	
Hope bag-valve assembly with pop-off (ped)		X	X	
Hope bag-valve assembly without pop-off (ped)		X	X	
Robertshaw facemask (adult)		X	X	
Robertshaw facemask (pediatric)		X	X	
OHIO newborn facemask		X	X	
Yoke-type regulator for "E" cylinder		X	X	
Oxygen tank with reduction valve	2	X	(OR LEASE)	
Oxygen refills				X
Oxygen regulator for demand valve		X	X	
Airshields MS-30 bag-valve assembly with reservoir		X	X	

Equipment	# Required by DOT	Capital Outlay	Reusable	Disposable
Set of nasopharyngeal airways		X	X	
Nebulizers		X	X	
Battery-operated suction units (portable)	2	X	X	
Electric suction machines		X	X	
Suction catheters--whistle tips (French)	2			X
Plastic Yankauer suction tips	2	X	X	
Stainless steel Yankauer suction tips		X	X	
Foot suction		X	X	
Suction connecting tubing				X
Hudson demand valve		X	X	
Hare-Elder demand valve		X	X	
Robertshaw demand valve		X	X	
6-foot demand valve hose		X	X	
"E" oxygen cylinders (rental)		X	(OR LEASE)	
"K" oxygen cylinders (rental)		X	(OR LEASE)	
Large cylinder wrench		X	X	
Small cylinder wrench		X	X	
Bulb syringes				X
Esophageal Obturator airways--complete	2			X
EDA replacement tubes				X
EDA replacement masks				X
*EGTA--complete				X
EGTA replacement tubes				X
EGTA replacement masks				X
Hare-Elder Valve assembly replacements				X
Hare-Elder downstream housing replacement				X
Right-angle adapters (bag-valve assembly)				X
Thumper/board/carrier/cylinders (mechanical CPR device)	1**	X	X	
Thumper connection adapters				X
*Kiddle electric rotating tourniquets		X	X	
CPR boards		X	X	
Tongue blades (boxes)				X
Adult intubation models	2	X	X	
*Pediatric intubation models	1	X	X	

Equipment	# Required by DOT	Capital Outlay	Reusable	Disposable
Laryngoscope handle-large ("D" battery)		X	X	
Laryngoscope handles-medium ("C" battery)	2	X	X	
Laryngoscope handles (ped) ("AA" battery)	1	X	X	
*Welch-Allyn disposable laryngoscope		X	X	
Laryngoscope blades:	2	X	X	
MacIntosh #4		X	X	
MacIntosh #3		X	X	
MacIntosh #2		X	X	
MacIntosh #1		X	X	
Wisconsin #3		X	X	
Wisconsin #2		X	X	
Wisconsin #1		X	X	
Miller #4		X	X	
Miller #3		X	X	
Miller #2		X	X	
Miller #1	1	X	X	
Blades #0		X	X	
Adult magill forceps	1	X	X	
Pediatric magill forceps	1	X	X	
Stopwatches		X	X	
*Stylettes			X	X
Polamedco slick with surelock top			X	X
Malleable silver-plastic coated			X	X
Copper malleable			X	X
Endotracheal tubes:	4			X
#9.0				X
#8.5				X
#8.0				X
#7.5				X
#5.0				X
#4.0				X
#3.5 with cuff				X
*Cricothyrotomy kit		X	X	
*Cricothyrotomy simulator		X	X	
Zipper cases		X	X	
*Laryngoscope bulbs--large				X
*Laryngoscope bulbs--small				X

Equipment	# Required by DOT	Capital Outlay	Reusable	Disposable
Silicone spray				X
*Cath-n-glove kits				X
*Nasogastric tubes--18 gauge	20**			X
*Cath tip syringes				X
Replacement airway (adult intub. model)				X
Replacement lungs (infant intub. model)				X
"C" batteries				X
"AA" batteries				X
Wall oxygen flowmeters		X	X	
Wall suction jar		X	X	
Wall humidifier		X	X	
*EndoStats				X
*Positive-end expiratory pressure device	2*	X	X	
*ET tube holders/tamers				X
*Gomco compact suction unit		X	X	
<u>Intravenous Therapy/Injections</u> (All Paramedic Equipment)				
Laerdal IV trainers	4	X	X	
Full-arm foam rubber IV trainer		X	X	
IV elbow--foam rubber		X	X	
IV hand--foam rubber		X	X	
Lifeform IV arm (adult)		X	X	
Lifeform IV arm (pediatric)		X	X	
*Lifeform Subclavian Model		X	X	
Penrose tourniquets	10			X
Velcro tourniquets		X	X	
Roll Latex surgical tubing (1/8" ID)				X
Vacutainer multi-sample needles	20			X
Bx Vacutainer housing	1			X
Blood tubes	20			X
Bx Over-The-Needle (OTN) catheters, 18g x 2"	20			X
Bx OTN catheters, 22g x 1"				X
Bx Through-The-Needle catheter, small				X
Case small-vein infusion sets (23g)	20			X
Btl Dextrostix				X
Btl lancets				X
Case NaCl--250cc bags	20			X
Case RL--500cc bags				X

Equipment	# Required by DOT	Capital Outlay	Reusable	Disposable
Case Solution Adm sets	20			X
Case Minidrip Adm sets	20			X
Long armboard	5		X	
Stretcher IV pole		X	X	
Rolling IV pole		X		
IV infusion pump--manual		X	X	
Laerdal IV arm replacement parts:				
Inner arm				X
Outer skin				X
Veins				X
Talcum powder				X
Case alcohol preps--large	1BX			X
Silicone Venipuncture Teaching Model (Spenco)		X	X	
Destructi-clip				X
Contaminated needle box				X
Bx stainless steel needles, 25g x 5/8"				X
Bx stainless steel needles, 22g x 1 1/2"				X
Bx stainless steel needles, 23g x 1"				X
Bx stainless steel needles, 23 g/3cc syringe				X
1-ounce Medcups				X
Bx Practiamps (practice ampules)	5			X
Sterile water for injection	5			X
Sterile saline for injection				X
Tubex cartridge		X	X	
Lifeform Injection Hips		X	X	
Injection Hips--foam rubber		X	X	
Syringes:	40			X
Bx tuberculin, 1cc				X
Bx tuberculin, 3cc				X
Bx tuberculin, 10cc				X
Bx tuberculin, 30cc				X
Bx tuberculin, 50cc				X
Spenco Silicone Injection model		X	X	
9-drawer crash cart		X	X	
Bx Barrier disposable towels				X
Infant IV head		X	X	
Case extension sets				X
Bx adhesive remover				X

Equipment	# Required by DOT	Capital Outlay	Reusable	Disposable
Monitor/Defibrillation				
(All Paramedic Equipment)				
Lifepak 5 portable monitor/ defibrillator	2	X	X	
Lifepak battery charger		X	X	
Lifepak rechargeable batteries		X	X	
Lifepak patient cable		X	X	
Lifepak battery discharger		X	X	
Lifepak accessory bag		X	X	
Lifepak padded carrying case		X	X	
Bx diposable electrodes				X
Conductive paste				X
Bx defib pads				X
Case Lifepak recording paper				X
Case Telecare recording paper				X
Arrhythmia Anne/Special Torso	1	X	X	
Electronic Heart	1	X	X	
Laerdal Cardiac Rhythm Simulator		X	X	
Telecare Monitor (dummy defib/charger)		X	X	
Telecare patient cable			X	
Ambu EKG Trainer		X	X	
Dressings				
Bx 1" micropore tape				X
Bx 1/2" micropore tape				X
Bx 1/2" dermicel				X
Bx 1" dermicel				X
Bx 1" dermaclear				X
Rolls 1/2" adhesive tape	3			X
Bx Durapore				X
Case alcohol wipes--medium				X
Pkg trauma dressings				X
Pkg unsterile 4 x 4 (200/pkg)	1			X
Pkg unsterile 2 x 2 (200/pkg)				X
Bx unsterile exam gloves				X
Bx sterile surgeon's gloves, 6 1/2				X
Bx sterile surgeon's gloves, 7 1/2				X
Bx sterile surgeon's gloves, 8 1/2				X
Tubes KY jelly	2			X
4" kling	40			X
Dz 3" kling				X
Dz 2" kling				X
Kerlex				X
Pkg Vaseline gauze				X

Equipment	# Required by DOT	Capital Outlay	Reusable	Disposable
Bx telfa pads				X
Dz 4" roller gauze				X
Dz 2" roller gauze				X
Burn sheets	5			X
Dz triangular bandages	20			X
Battle dressings (18 x 22)				X
Multi-trauma dressings	40			X
Surgipads (8 x 7 1/2)				X
Dz oval eye pads	1BX			X
3" Coban elastic bandage	20			X
Safety pins				X
Splints				
Hare traction splint	2	X	X	
Trac-3 splint		X	X	
Folding (EMT) traction splint		X	X	
Thomas half-ring splint with heel		X	X	
Thomas half-ring splint without heel		X	X	
Short padded board splints	1 set	X	X	
Medium padded board splints	1 set	X	X	
Long padded board splints	1 set	X	X	
Dz wire ladder splints (3 1/2" x 31")		X	X	
Bx wooden short-arm splints		X	X	
Air splints:	1 set	X	X	
1 half leg				
2 ankle				
4 full leg				
1 short arm				
2 long arm				
Set Jobst roll-up air splint kit		X	X	
Jobst MAST suit (single zipper section)		X	X	
MAST suits (zipper, 3-section)		X	X	
MAST suits (velcro, 3-section)	2	X	X	
MAST suit (pediatric)		X	X	
B-splint kit		X	X	
Windless rods			X	
Replacement ankle hitches				X
Sager traction splint		X	X	
Sager II traction splint		X	X	
Set (4) vacuum splints		X	X	
Frac-pak splints		X	X	

Equipment	# Required by DOT	Capital Outlay	Reusable	Disposable
Extrication				
Ring cutter		X	X	
Scott air pak		X	X	
Pick-head fire ax		X	X	
KED with cervical collar		X	X	
K-Bar-T rescue tool		X	X	
Short crowbar		X	X	
Hooligan tool		X	X	
Short pry bar		X	X	
Window punch		X	X	
Air chisel kit		X	X	
Porta-Power Extrication kit (red box)		X	X	
Blackhawk extrication tool kit		X	X	
911 Rescue tool kit with air chisel		X	X	
36" bolt cutters		X	X	
Nylon rope--assorted lengths		X	X	
Hurst extrication tool		X	X	
Quik-bar		X	X	
Crash axe		X	X	
Asbestos blanket		X	X	
Pair of large leather gloves		X	X	
Pair of small leather gloves		X	X	
Yellow duck bunker coats		X	X	
EMT helmets with shield		X	X	
Square long back boards with runners		X	X	
Tapered long back board with runners	2	X	X	
Tapered long back board without runners		X	X	
Miller body splint		X	X	
Wooden short back boards	2	X	X	
Stokes basket		X	X	
Stairchair		X	X	
Scoop (orthopedic) stretcher	1	X	X	
Flexcot		X	X	
D-ring litter		X	X	
Set velcro restraints		X	X	
9-foot straps (stiff)	5	X	X	
5-foot strap (stiff)		X	X	
Flexcots with velcro closure		X	X	
Cervical Immobilization Device I (CID)		X	X	

Equipment	# Required by DOT	Capital Outlay	Reusable	Disposable
CID II		X	X	
CID II-Q		X	X	
Soft cervical collars (various sizes)	1 set	X	X	
Large Philadelphia collar		X	X	
Medium Philadelphia collar		X	X	
Sandbags:				
10#		X	X	
7#		X	X	
5#		X	X	
3#		X	X	
1#		X	X	
Model 30-T Ferno-Washington stretcher		X	X	
Model 30 Ferno-Washington stretcher		X	X	
Stretcher Bar		X	X	
Extrication vest		X	X	
Mass Casualty				
Met Casualty Simulation Kit		X	X	
Traffic Triage system		X	x	
Practoplast kit		X	X	
Pkg Mettag triage tags				X
Ben Nye Trauma Simulator moulage kit		X	X	
Childbirth				
Obstetrical manikin/baby/placenta		X	X	
Disposable OB kit	2			X
Disposable umbilical cords				X
Diagnostics				
Sphygmomanometer (wall mount)		X	X	
Sphygmomanometers	5	X	X	
Stethoscopes	20	X	X	
Teaching stethoscopes		X	X	
Penlights	20			X
Large adult sphygmomanometer		X	x	
Pediatric sphygmomanometer set		X	X	
Fetoscope		X	X	
Replacement stethoscope diaphragms				X
Replacement BP cuff bladders				X
Replacement BP cuff bulbs with valves				X
Replacement BP cuff gauges				X
Wall mount tachometer		X	X	

Equipment	# Required by DOT	Capital Outlay	Reusable	Disposable
Stopclocks (wall-mount)		X	X	
IVAC electronic thermometers		X	X	
*Set Otoscope/opthalmoscope		X	X	
Emergency Driving				
1975 Chevy Modular Ambulances		X	X	
Large cones		X	X	
Medium cones		X	X	
Small cones		X	X	
Paved, path-painted, fenced driving range		X	X	
Stopwatch		X	X	
Clipboards		X	X	
Case motor oil				X
Spare tires		X	X	
Two-way radios (9-volt battery)		X	X	
Miscellaneous				
Demonstration table, 30" x 72"		X	X	
3-shelf utility cart		X	X	
Kik-step stool		X	X	
Ammonia inhalants				X
100-lb barbell		X	X	
Black metal storage cabinet		X	X	
Floor magazine rack		X	X	
Metal trays/sectioned with handle		X	X	
Plastic emesis basins				X
Tubes artificial blood				X
Stainless steel jars with lids		X	X	
Pr straight hemostats		X	X	
Pr large bandage scissors		X	X	
Jump kits		X	X	
Voice pagers (lease)		X	X	
Laerdal suction battery pak (replacement)		X	X	
Defib grids (Arrhythmia Anne)				X
Laundry hamper/bag			X	
Pillows		X	X	
Pillowcases		X	X	
Flat cot sheets		X	X	
Fitted cot sheets		X	X	
Blankets	10	X	X	
X-ray viewbox		X	X	
Electric typewriter		X	X	
Computer and printer		X	X	
16mm film projector	1	X	X	

Equipment	# Required by DOT	Capital Outlay	Reusable	Disposable
Filmstrip projector	1	X	X	
35mm slide projector	1	X	X	
1/2" video player/TV monitor	1	X	X	
Cassette player/recorder	1	X	X	
Video table with electric outlet		X	X	
Projection screen	1	X	X	
Student desks		X	X	
Teacher's desk/table with chair or stool		X	X	
Chalkboard	1	X	X	
Storage area		X	X	
Bulletin board		X	X	
Classroom		X	X	
Instructor office		X	X	
Instructor desk and chair		X	X	
Instructor side chair		X	X	
Instructor file cabinet		X	X	
Instructor bookcase		X	X	
Osmosis-Diffusion Biokit		X	X	
Snakebite kit		X	X	
Bx bandaids				X
Roll aluminum foil	1			X
Sterile gown/gloves				X
Optional (All Paramedic Equipment)				
Cricothyrotome	2**	X	X	
Heimlich valve	2**	X	X	
Pressure-cycled respirator	1**	X	X	
Volume-cycle respirator	1**	X	X	
Transthoracic pacemaker	1**	X	X	
Phlebotomy tray	1**	X	X	
Suture tray	1**	X	X	
Urinary catheters/trays	10**	X	X	
Isolette	1**	X	X	

* Advanced-level equipment (Paramedic)
** Optional skills; therefore, optional equipment

NOTE: The required equipment numbers are based on a class with 20 students. Also, equipment in "# Required by DOT" represents basic equipment for a Paramedic program. Resource = First Edition--National Paramedic Instructor Lesson Plans Course Guide, U.S. Department of Transportation.

The entire equipment list is a compilation from the Miami-Dade, St. Augustine, and Pensacola Paramedic programs.

Safety

The **Florida State Board of Education** establishes rules for the operation of public schools. **Chapter 6A-2, Part III, Section B** of these rules contains the standards for existing educational facilities. Subsections deal with the entire facility in regard to such topics as electrical equipment, flammable materials, ventilation, fire safety, storage, and illumination.

Although no specific safety regulations have been mandated for Paramedic programs, it is suggested that strict adherence to the general standards as outlined above be practiced (e.g., first-aid kits in classrooms, adequate fire extinguishers, fire evacuation plan, etc.).

PROGRAM IMPLEMENTATION

This section includes information that may help you implement the Paramedic program, such as student admission requirements, suggested instructional approach, teaching methods, evaluation criteria, a sample learning guide, instructional resources for printed and audiovisual materials, and student organization participation.

Student Admissions Requirements

Students enrolled in this program should be able to benefit from the instructional content with reasonable expectations for entry-level employment upon successful completion of the program.

In accordance with the Course Code Directory, the Paramedic program is offered to students at grade levels 30, 31. In accordance with Section 233.069, F.S., the minimum basic skills grade level required for this postsecondary adult vocational program is: Mathematics 9.0, Language 11.0. This grade level number corresponds to a grade equivalent score obtained on a state-designated basic skills examination.

Emergency Medical Technician (EMT) program completion/certification is required for admittance into the program. In addition, the Joint Review Committee on Educational Programs for EMT-Paramedics recommends the following selection prerequisites:

1. High school graduation or general education equivalent.

2. Maturity of judgment, sound moral character, and health status which provide reasonable assurance that the student will meet the physical and mental demands of the occupation.

3. Evidence of successful completion and certification of a course of training for EMT-Ambulance.

4. In programs which combine EMT-Ambulance and EMT-Paramedic training, requirement 3 above may be completed concurrently with the didactic and practice portions of the Paramedic program. These requirements must be fulfilled before students begin their field internships.

5. Equivalent military training within the past year and experiences as approved by the State agency may be substituted for prerequisites 3 and 4 above.

6. An admissions committee shall attest to the applicant's attitude, professionalism, motivation, dependability, and desire to follow orders reliably. Final selection of students by the admission committee shall be based on the following factors: interview, testing, past performance, the capability of the student to be placed within a position upon graduation, and others which preclude the possibility that the student is an unwilling participant.

Other specific admissions criteria may be required by the local educational agencies.

The typical length of this program for the average achieving student is 600 hours. A student may be enrolled in either a certificate or an associate degree program.

Suggested Instructional Approach

The instructional content of this vocational program is based on tasks performed and employability skills required on the job. The criteria used for evaluating student performance are determined by job performance standards. Each task to be performed, the conditions under which the student must perform, and the standard by which the performance will be evaluated are made known in explicit terms--in writing--to the student (and to any other interested persons) before instruction. The statement containing this information is often called a performance objective.

Content and pacing decisions are based on the instructional needs of the individual student, that is, on the discrepancies between necessary skills and current skill attainments. Ways of meeting these needs are determined by an assessment of the student's aptitudes, learning styles, and career goals. At any one time, different students may be working on different objectives.

Each student is expected to acquire the necessary knowledge and skills to demonstrate, through performance of each task, that he or she has reached the specified standard of performance. Since actual performance is the only reliable proof of competence, successful completion of the program is dependent on the student's demonstrated attainment of the knowledge and skills for which instruction has been provided.

Competency-based vocational education is strongly recommended as the instructional approach to training students in the Paramedic program.

Suggested Teaching Methods

Teaching and learning are inseparable, and together they represent an interactive process between the person teaching and the person learning. Teaching occurs only if and when the learner exhibits some measurable change in behavior. The following are assumptions pertaining to teachers, learners, and the learning process:

1. Learning is transferable. What is learned in one situation can be transferred to another and used to clarify it.

2. Learning takes place faster when the learner moves from the simple to the more complex in an orderly, logical way.

3. Learning takes place faster if the learner "sees" something familiar in a new experience. Each experience serves as a background for future experiences.

4. Learning does not occur singly. Knowledge is influenced by the learner's frame of mind. Attitudes develop towards what is being learned.

5. When a learner sees a charted course geared to specific goals and needs, he or she perseveres.

6. Learning implies activity on the part of the learner.

The instructor implements the course content by designating each skill to be learned and by planning the learning sequence. Instruction may consist of a demonstration or a film reinforcing the unit, practice in the learning lab, and a performance examination.

Of necessity, there will be lecture and discussion. Time should be allowed for questions and answers. Discussion of problems encountered in the work-practice situation should receive consideration, as this is the "real world."

All types of visual aids can be employed to help clarify concepts for the student. The Paramedic student needs simple, uncluttered visual assistance to help him or her learn more effectively. Many such visual aids are teacher-made rather than commercial.

The student should be provided with an outline of the course that includes the topics to be covered. Any other handout material needed for clarification of topics should also be used.

Supervised student practice, including demonstration and return demonstration, should be an integral part of the program.

Evaluation Criteria

Evaluation of the student's performance in classroom, lab, and clinical situations should be based on:

- quality of work both in written and practical application
- classroom participation
- ability to organize and complete assignments
- ability to perform safely in the clinical area
- interpersonal relations

In the classroom and lab, the student will be evaluated by quizzes, tests, and reports, by progress charts, and by skills checklists. In the clinical area, progress charts and skills checklists will be used.

Students are supervised when performing competencies until, in the instructor's judgment, the student is able to function safely with minimum assistance.

In addition, it is essential that each Paramedic student be evaluated on his or her proficiency of skills and his or her knowledge at the completion of each unit of instruction. Skill evaluation sheets should be developed for each skill in each unit. These sheets can be used as guides for evaluating the student's skill proficiency. However, some time prior to the end of the course, a separate evaluation of skills should be performed by individuals who were not directly involved in the students'

training. Certificates of course completion should not be granted until each student demonstrates an acceptable level of competency in all three components of EMT-Paramedic training (didactic, clinical, and field internship). The evaluation of knowledge objectives is left to the discretion of the instructor, according to predetermined behavioral objectives. Testing of knowledge objectives is left to the discretion of the instructor, according to predetermined behavioral objectives. Testing of knowledge should stress areas of clinical relevance and basic science. End-of-section exams and a formal end-of-course exam are strongly recommended. No matter what type of evaluation system is used, students should be kept informed of their progress, should be given additional activities to supplement weak areas, and should not be allowed to graduate unless they can pass predetermined levels of competency.

The emphasis should be on student competency, rather than on the total number of hours the student is involved in the program. Thus, it is possible for the student to be tested and given credit for any section or unit taught. However, a student's proficiency should not be based upon his or her previous educational and work experience.

Certificate of Completion

A certificate indicating competencies achieved, attendance, and grade level should be awarded to the student upon completion of the program. This can be done by using the Career Merit Achievement Plan (Career MAP) for **Paramedic**.

Student Learning Guides

As mentioned in Instructional Approach of the Florida Vocational Education Program Implementation Guide, competency-based vocational instruction (CBVI) is the most appropriate instructional approach to teaching students to become competent Paramedics. In order to implement CBVI effectively and efficiently, you and the students should have access to competency-based instructional materials, such as student guides or modules.

A sample student learning guide is provided in the Appendix as an example for you to use when developing or adapting a set of learning guides or modules. This sample guide is not complete--it presents basic components of a competency-based student learning guide: introduction, objectives, a list of resources, learning activities, information sheets, self-check and answer sheet, activity sheets, a written test, and a performance test. An answer key to the written test is included for the instructor. If the module you develop is not self-contained, you would have an additional section, Resources, containing lists of books, articles, films, etc.

The following components are often included in a student learning guide:

The **introduction**, which includes the intended outcome, the SPS for which the guide is developed, and an introduction to the guide stating why this topic is important to study and what this guide is about. (Other information, such as the relationship between this guide and other guides, can be included on this sheet also.)

The **objectives**, which include both knowledge and performance objectives if the SPS calls for hands-on performance, but only knowledge objectives if the SPS requires knowledge-oriented competencies.

The **resources**, which includes instructional materials the student should use to study and tools and supplies students should have access to in order to complete this guide.

The **learning activities**, which include a list of steps students should take in order to master the objectives.

An **information sheet**, which may need to be developed if the existing instructional materials do not cover enough content for students to master the objectives.

The **self-check**, which consists of questions designed to help students review what they have studied.

The **activity sheet**, which is designed to help students practice hands-on tasks for performance objectives (if the SPS does not require hands-on activity, this sheet is not included in the learning guide).

The **written test**, which is to measure the student's achievement on the knowledge objectives.

The **performance test**, which is designed to be used by the evaluator/instructor to assess the student's level of achievement on the performance objectives.

The student learning guide may consist of two or more sets of the above components (as the sample student learning guide in the Appendix does) if the objectives need to be divided into two or more groups. Whatever format you use for the student learning guide, these components should be included in order to incorporate instructional events such as:

1. gaining attention
2. stating objectives
3. recalling prerequisites
4. providing instructional stimulus
5. providing learning guidance
6. eliciting performance
7. providing feedback
8. assessing performance
9. enhancing retention and transfer

Student Organization Participation

The vocational student organization associated with this program is Health Occupations Students of America, Inc. (HOSA). The Florida Association of Health Occupations Students of America is specifically designed for students enrolled in health occupations programs. The HOSA activities are included as an integral part of the

health occupations education curricula, and complement and enrich instruction in each program area.

HOSA stresses student participation in cooperatively planning and conducting projects involving community service, career planning, social service, parliamentary procedure, public speaking, and program-related, competency-based competitive events.

HOSA stresses the recognition and promotion of the worth and dignity of each member and the development of both leadership and "followship" skills. The importance of maintaining health and striving for students' increased knowledge and skill in health occupations education programs is inherent in the HOSA philosophy. Participation in HOSA helps to foster integrity, enthusiasm, and devotion to a career in the health occupations.

Involvement in HOSA will assist students in assuming responsibility, in working cooperatively, and in becoming more proficient in their chosen health occupations careers. The National HOSA motto is: "The Hands of Youth Mold the Health of Tomorrow."

PROFESSIONAL DEVELOPMENT

Teacher Certification

Listed below are the certification coverages included in the current Course Code Directory for Paramedic:

NURSING ED @5	EMR MED TE @7
PRAC NURSE 7	PARAMEDIC 7

Other Qualifications

Local education agencies may qualify the teacher to teach Paramedic by having fulfilled one or more of the following requirements:

1. The teacher has obtained a regular or temporary Florida teacher's certificate with appropriate coverages.
2. The teacher has been approved by the local school board, in accordance with official school policy.
3. The teacher holds a regular or temporary Florida teacher's certificate with other than appropriate coverage, but has met all occupational experience requirements for appropriate certification and has been approved by the local school board to teach out of field.
4. Community college instructors should meet the requirements of the individual college.

Technical Updating

For technical and professional updating inservice activities, instructors at high schools and area vocational-technical centers should contact district Teacher Education Center (TEC) and Health Education supervisors. Community college instructors should contact the department of program staff development of the individual college.

Professional Organizations and Support Services

Membership in professional associations offers vocational educators an enormous range of opportunities for working together to strengthen the field and to develop personal competence and satisfaction in work. The associations have similar goals and activities. They seek excellence in program content by means of joint efforts among members, communications that keep members current, forums for the discussion of issues in the field, useful and stimulating publications, and professional growth experiences at local, state, regional, and national meetings and annual conventions. They are concerned with increasing public understanding and support in the field.

American Academy of Orthopaedic Surgeons (AAOS)
444 N Michigan Avenue
Chicago, IL 60611
(312) 822-0970

American Ambulance Association (AAA)
Suite 590
1225 Eighth Street
Sacramento, CA 95814
(916) 448-5223

American Association of Medico-Legal Consultants
The Barclay
Rittenhouse Square
Philadelphia, PA 19103-6164
(215) 545-6363

American Board of Emergency Medicine
Suite D
200 Woodland Pass
East Lansing, MI 48823
(517) 332-4800

American College of Emergency Physicians (ACEP)
P.O. Box 61991
Dallas, TX 75261
(214) 550-0911

American College of Osteopathic Emergency Physicians (ACOEP)
5200 S Ellis Avenue
Chicago, IL 60615
(312) 947-2704

American Heart Association (AHA)
7320 Greenville Avenue
Dallas, TX 75231
(214) 750-5300

American Heart Association
Florida Affiliate
P.O. Box 33035
St. Petersburg, FL 33733-8035
(813) 894-7400

American Medical Association
Division of Allied Health Education and Accreditation
535 North Dearborn Street
Chicago, IL 60610
(312) 645-4660

American Osteopathic Board of Emergency Medicine
4150 City Avenue
Philadelphia, PA 19131
(215) 581-6056

American Red Cross
17th and D Streets, NW
Washington, DC 20006
(202) 737-8300

American Society of Hospital-Based Emergency Air Medical Services (ASHBEAMS)
612 Pennsylvania Avenue
San Diego, CA 92103
(619) 542-0388

American Trauma Society (ATS)
P.O. Box 13526
Baltimore, MD 21203
(800) 556-7890

Associated Public-Safety Communications Officers (APCO)
P.O. Box 669
New Smyrna Beach, FL 32070
(904) 427-3461

Critical Incident Stress Debriefers (CISD)
c/o Marilyn Schwartz
Airport Business Center
5824 South Semoran Boulevard
Orlando, FL 32822-4812
(904) 487-1911

Department of Health and Rehabilitative Services
Emergency Medical Services Section
1317 Winewood Boulevard
Tallahassee, FL 32301
(904) 487-1911

Emergency Care Information Center
P.O. Box 457
Wilton, CT 06897
(203) 762-3911

Emergency Care Research Institute (ECRI)
5200 Butler Pike
Plymouth Meeting, PA 19462
(215) 825-6000

Emergency Medical Service Institute
Suite 224
5937 Broad Street Mall
Pittsburgh, PA 15206
(412) 361-3674

Emergency Medicine Foundation (EMF)
P.O. Box 61991
Dallas, TX 75261
(214) 550-0911

Emergency Medicine Management Association (EMMA)
Suite 700
1101 Connecticut Avenue
Washington, DC 20036
(202) 857-1146

Emergency Nurses Association (ENA)
666 N Lake Shore Drive
Chicago, IL 60611
(312) 649-0297

EMS Advisory Council
Gina Durden
1317 Winewood Boulevard
Tallahassee, FL 32399-0700
(904) 487-1911

EMS Educators of Florida
c/o Michael Moats, President
2111 Curry Road
Lutz, FL 33549
(813) 972-2043

EMS Providers
The Providers Association
61188 Rhythm Circle
Orlando, FL 32808
(407) 849-2135

Federal Emergency Management Agency (FEMA)
Training and Fire Programs
National Emergency Training Center
16825 S Seton Avenue
Emmitsburg, MD 21727
(301) 447-6771

Florida Aeromedical Association
Mary Lou Stubbs
Life Flight
800 Prudential Drive
Jacksonville, FL 32207
(904) 393-2917

Florida Association of County EMS (FACEMS)
Mark Fingeret, President
P.O. Box 6045
Daytona Beach, FL 32022
(904) 252-4900

Florida Association of Medical Directors
c/o Beth Brunner
Airport Business Center
5824 South Semoran Blvd.
Orlando, FL 32822-4812
(407) 281-7396

Florida Vocational Association
1420 N Paul Russell Road
Tallahassee, FL 32301
(904) 878-6860

Health Occupations Education Division
American Vocational Association
1410 King Street
Alexandria, VA 22314
(703) 683-3111

Health Occupations Educators Association of Florida
Dr. Larry Hudson, President
University of Central Florida
Orlando, FL 32816
(305) 275-2950

Health Occupations Students of America (HOSA)
Myra Saley
Department of Education
Knott Building
Tallahassee, FL 32399
(904) 488-7019

Helicopter Association International (HAI)
1619 Duke Street
Alexandria, VA 22314
(703) 683-4646

Helicopter Foundation International
1619 Duke Street
Alexandria, VA 22314
(703) 683-4646

International Association of Fire Chiefs
1329 18th Street, NW
Washington, DC 20036
(202) 833-3420

International Association of Fire Fighters (IAFF)
1750 New York Avenue, NW
Washington, DC 20006
(202) 737-8484

International Society for Burn Injuries
c/o John Boswick, M.D.
Suite 600
2005 Franklin Street
Denver, CO 80205
(303) 839-1694

International Society of Fire Service Instructors (ISFSI)
20 Main Street
Ashland, MA 01721
(617) 881-5800

National Association of Emergency Medical Technicians (NAEMT)
9140 Ward Parkway
Kansas City, MO 64114
(816) 444-3500

National Association of EMS Physicians
Suite 316
1064 Gardner Road
Charleston, SC 29407
(803) 763-9571

National Association of State EMS Directors
Office of Emergency Medical Services
c/o Thomas M. Harmelink
P.O. Box 12200
Raleigh, NC 27605
(919) 733-2285

National Council of State Emergency Medical Services Training Coordinators (NCSEMSTC)
c/o Jason White
Office of Emergency Medical Services
Department of Health
P.O. Box 570
Jefferson City, MO 65102
(314) 751-6369

National Fire Academy
16825 S Seton Avenue
Emmitsburg, MD 21727
(301) 447-6771

National Head Injury Foundation
P.O. Box 567
Framingham, MA 01701
(617) 879-7473

National Registry of Emergency Medical Technicians (NREMT)
P.O. Box 29233
Columbus, OH 43229
(614) 888-4484

National Safety Council
444 N Michigan Avenue
Chicago, IL 60611
(312) 527-4800

National Spinal Cord Injury Hotline
Maryland Institute for Emergency Medical Services Systems
22 S Green Street
Baltimore, MD 21201
(800) 526-3458

National Study Center for Trauma and Emergency Medical Systems
22 S Greene Street
Baltimore, MD 21201-1595
(301) 328-5085

Parachute Medical Rescue Service
P.O. Box 693
Boulder, CO 80306
(303) 449-3750

Society for Teachers of Emergency Medicine (STEM)
P.O. Box 619911
Dallas, TX 75261
(214) 550-0911

Survival Education Association (SEA)
9035 Golden Given Road
Tacoma, WA 98445
(206) 531-3156

United States Department of Transportation,
Emergency Medical Services Division
NTS 42, Room 6124
400 7th Street, SW
Washington, DC 20590
(202) 366-5440

United States Lifesaving Association (USLA)
c/o Chicago Park District
425 E McFetridge Drive
Chicago, IL 60605
(312) 294-2332

University Association for Emergency Medicine (UA/EM)
900 E Ottawa
Lansing, MI 48915
(517) 485-5484

FEIS Service

If you need (1) information about copyright; (2) a list of instructors teaching in Paramedic programs in Florida; (3) journal articles or project reports on specific topics; (4) curriculum and instructional materials; or (5) information on current trends, issues, and research, please contact the Florida Educational Information Service (FEIS), The Center for Instructional Development and Services, College of Education, Florida State University, 2003 Apalachee Parkway, Tallahassee, Florida 32301, (904) 487-2054. FEIS will tailor its service to meet your needs on information concerning resource materials.

INSTRUCTIONAL RESOURCES

For the Instructional Resources section, the Paramedic Program Guide committee has recommended that the citations from the following bibliography be reproduced:

Emergency Medical Services: A Bibliography. Tallahassee: Florida Department of State, 1987.

Administration

TEXTS

TITLE: ***Current Emergency Therapy, 1985*** (1985)
AUTHOR: Edlich, Richard F.; Spyker, Daniel
PUBLISHER: Aspen Systems Corporation
1600 Research Boulevard
Rockville, MD 20850
(800) 638-8437
FORMAT: Collection, 1,000 pp., $85

TITLE: ***Emergency Medical Technician and Paramedic Training: Perspectives on Status and Trends*** (1983)
AUTHOR: Jacobs, Lenworth M.; Bennett, Barbara R.; eds.
PUBLISHER: Haworth Press
12 West 32nd Street
New York, NY 10010
(607) 722-5857
FORMAT: Report, 66 pp., $15

TITLE: ***Handbook for Mental Health Care of Disaster Victims*** (1980)
AUTHOR: Cohen, Raquel; Ahearn, Frederick
PUBLISHER: Johns Hopkins University Press
Suite 275
701 W 40th Street
Baltimore, MD 21211
(301) 338-7864
FORMAT: Manual, 144 pp., $16.50

TITLE: ***Managing in the Emergency Medical Services: Principles and Practices*** (1984)
AUTHOR: Newkirk, William; Linden, William
PUBLISHER: Reston Publishing Company
AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000
FORMAT: Text, 258 pp., $22.95

TITLE: ***Medical Emergencies: Medical Subject Analysis and Research Index With Bibliography*** (1983)
AUTHOR: Swathmore, Harvey H.
PUBLISHER: ABBE Publishers
4111 Gallows Road
Annandale, VA 22003
(703) 750-0255
FORMAT: Reference Material, 120 pp., paperback $21.95, hardback $29.95

TITLE: ***Priorities in Multiple Trauma*** (1980)
AUTHOR: Meislin, Harvey W.
PUBLISHER: Aspen Systems Corporation
1600 Research Boulevard
Rockville, MD 20850
(800) 638-8437
FORMAT: Reference Material, 159 pp., $30.95

TITLE: ***Responding to the Mass Casualty Incident: A Guide for EMS Personnel*** (1982)
AUTHOR: Butman, Alexander M.
PUBLISHER: Emergency Training
181 Post Road, W
Westport, CT 06880
(203) 227-3350
FORMAT: Text, 176 pp., $12.95

TITLE: ***Systems Approach to Emergency Medical Care*** (1983)
AUTHOR: Boyd, David R.; Edich, Richard F.; Micik, Sylvia H.
PUBLISHER: Appleton-Century-Crofts
AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000
FORMAT: Text, 544 pp., $48

TITLE: ***Triage: Emergency Care Handbook*** (1985)
AUTHOR: Klinghoffer, Max
PUBLISHER: Technomic Publishing Company
P. O. Box 3535
851 New Holland Avenue
Lancaster, PA 17604
(717) 291-5609
FORMAT: Text, 191 pp., $25

AUDIOVISUAL MATERIALS

TITLE: ***Between Life and Death*** (1978)
PUBLISHER: U.S. Department of Transportation
National Highway Traffic Safety Administration
AVAILABILITY: National Audiovisual Center
Customer Services Section PY
8700 Edgeworth Drive
Capitol Heights, MD 20743-3701
(301) 763-1896
ANNOTATION: This film illustrates how an emergency medical services system should respond to an emergency. It focuses on providing the coordination, transportation, and communications necessary to bring an injured person under definitive medical care in the shortest practical time. Prehospital measures for sustaining and prolonging life both at the scene of an emergency and in transit to the hopsital are demonstrated.
FORMAT: 16mm Film, 26 min., $275, rental $40

TITLE: ***Instructor Training for Basic Training Course—Emergency Medical Technician*** (2nd ed., 1979)
DEVELOPER: U.S. Department of Transportation
National Highway Traffic Safety Administration
AVAILABILITY: National Audiovisual Center
Customer Services Section PY
8700 Edgeworth Drive
Capitol Heights, MD 20743-3701
(301) 763-1896
ANNOTATION: The information presented here is intended to aid those individuals who teach emergency medical technicians. Ways to improve teaching methods and to upgrade course content are explained. The course emphasizes the effectiveness of learning emergency measures by actually performing them and repeating and practicing them until they're fully integrated.
FORMAT: Slidetapes, 2; Study Guide/Workbook, 28 pp.; $60 a set

TITLE: ***A Lady Called Camille*** (1979)

DEVELOPER: U.S. Office of Civil Defense

AVAILABILITY: National Audiovisual Center
Customer Services Section PY
8700 Edgeworth Drive
Capitol Heights, MD 20743-3701
(301) 763-1896

ANNOTATION: This tape documents the destruction caused by hurricane Camille and shows how trained rescue teams saved thousands of lives. It explains that rescue efforts were successful because the rescue workers had a rescue plan, and because trained rescue teams were helped by thousands of civilian and military volunteers.

FORMAT: Videotape, 29 min., ½-inch Beta or VHS, or ¾-inch U-Matic, $110

Roles and Responsibilities of Prehospital Emergency Care Personnel

TITLE: ***Evidence Submission Manual*** (1984)

PUBLISHER: Florida State Department of Law Enforcement
Crime Laboratory Services
P.O. Box 1489
Tallahassee, FL 32302
(904) 487-1806

FORMAT: Manual, 81 pp., free

TITLE: ***Running Hot: Structure and Stress in Ambulance Work*** (1982)

AUTHOR: Metz, Donald L.

PUBLISHER: Abt Books
55 Wheeler Street
Cambridge, MA 02138
(617) 492-7100

FORMAT: Text, 208 pp., $16.95

TITLE: ***Street Law: Rights and Responsibilities of the EMT*** (1983)

AUTHOR: Frew, Stephen

PUBLISHER: Reston Publishing Company

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

FORMAT: Text, 256 pp., $18.95 hardback, $14.95 paperback

TITLE: ***Streetsense: Communication, Safety, and Control*** (1985)

AUTHOR: Dernocoeur, Kate Boyd

PUBLISHER: Brady Company

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

FORMAT: Text, 320 pp., $15.95

Medicolegal Materials

TITLE: ***Aspects of Law Affecting the Paramedical Professions*** (1984)

AUTHOR: Finch, John D.

PUBLISHER: Faber and Faber

AVAILABILITY: Harper and Row
Keystone Industrial Park
Scranton, PA 18512
(800) 242-7737

FORMAT: Text, 208 pp., $11.95

TITLE: ***EMS and the Law: A Legal Handbook for EMS Personnel*** (1983)

AUTHOR: Goldstein, Arnold S.

PUBLISHER: Brady Company

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

FORMAT: Text, 184 pp., $19.95 hardback, $15.95 paperback

TITLE: ***EMS Legal Primer*** (1985)

PUBLISHER: JEMS Publishing Company
P.O. Box 1026
Solana Beach, CA 92075
(619) 481-1128

FORMAT: Guide, 18 pp., $3.95, free with a subscription to JEMS

TITLE: ***Emergency Care and the Law*** (1981)

AUTHOR: Mancini, Marguerite R.; Gale, Alice T.

PUBLISHER: Aspen Systems Corporation
1600 Research Boulevard
Rockville, MD 20850
(800) 638-8437

FORMAT: Text, 255 pp., $29

TITLE: ***Law and Emergency Care*** (1980)

AUTHOR: George, James E.

PUBLISHER: C. V. Mosby Company
11830 Westline Industrial Drive
St. Louis, MO 63146
(800) 325-4177, ext. 10

FORMAT: Text, 284 pp., $32.95

General Materials

TEXTS

TITLE: ***Action Guide for Emergency Service Personnel*** (1985)

DEVELOPER: Rescue Training Associates

PUBLISHER: Brady Company

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

FORMAT: Manual, 707 pp., $26.95

TITLE: ***Advanced Skills in Emergency Care: A Text for the Intermediate EMT*** (1982)

AUTHOR: Butman, Alexander M.; Reinberg, Steven E.; McSwain, Norman E., Jr.

PUBLISHER: Emergency Training
181 Post Road, W
Westport, CT 06680
(203) 227-3350

FORMAT: Text, 256 pp., $14.95

TITLE: ***Atlas of Paramedic Skills*** (1985)

AUTHOR: Bledsoe, Bryan

PUBLISHER: Brady Company

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

FORMAT: Text, 416 pp., $21.95

TITLE: ***Basic Emergency Care of the Sick and Injured*** (3rd ed., 1983)

AUTHOR: Parcel, Guy S.

PUBLISHER: C. V. Mosby Company
11830 Westline Industrial Drive
St. Louis, MO 63146
(800) 325-4177, ext. 10

FORMAT: Text, 300 pp., $16.95

TITLE: ***Basic Life Support Skills Manual*** (2nd ed., 1985)

AUTHOR: Phillips, Charles

PUBLISHER: Brady Company

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

FORMAT: Text, 224 pp., $16.95

TITLE: ***Basic Medicine for Emergency Personnel*** (1985)

AUTHOR: Evans, Roger; Durston, Pat

PUBLISHER: Butterworth Publishers
80 Montvale Avenue
Stoneham, MA 02180
(617) 438-8464

FORMAT: Text, 256 pp., $19.95

TITLE: ***Case Studies in Emergency Medicine*** (1983)

AUTHOR: Kassop, Robert I.

PUBLISHER: Appleton-Century-Crofts

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

FORMAT: Text, 160 pp., $15

TITLE: ***Common Simple Emergencies*** (1985)

AUTHOR: Buttaravoli, Philip M.; Stair, Thomas O.

PUBLISHER: Brady Company

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

FORMAT: Manual, 256 pp., $21.95

TITLE: ***Competency-Based, Common-Core Curriculum for Basic Emergency Medical Technician Education*** (1982)

PUBLISHER: Arizona Department of Education

SPONSOR: State Board of Directors for Community Colleges of Arizona

AVAILABILITY: Microfiche copies of ERIC documents may be ordered from:
Florida Educational Information Service
Suite 301
2003 Apalachee Parkway
Tallahassee, FL 32301-4829
(904) 487-2054
Paper copies of ERIC documents may be ordered from:
ERIC Document Reproduction Service
3900 Wheeler Avenue
Alexandria, VA 22304
(800) 227-3742

FORMAT: Curriculum Guide, 50 pp., ED 231 949, $2.50, mf $.30

TITLE: ***Early Care of the Injured Patient*** (3rd ed., 1982)

DEVELOPER: American College of Surgeons
Committee on Trauma

PUBLISHER: W. B. Saunders Company
W Washington Square
Philadelphia, PA 19105
(215) 574-4808

FORMAT: Text, 432 pp., $29.95

TITLE: ***Emergency Care*** (1981)

AUTHOR: Boswick, John A., Jr

PUBLISHER: W. B. Saunders Company
W Washington Square
Philadelphia, PA 19105
(215) 574-4808

FORMAT: Text, 224 pp., $9.95

TITLE: ***Emergency Care*** (2nd ed., 1982)

AUTHOR: Gazzaniga, Alan

PUBLISHER: Reston Publishing Company

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

FORMAT: Text, 613 pp., $21.95

TITLE: ***Emergency Care*** (4th ed., 1986)

AUTHOR: Grant, Harvey D.; Murray, Robert H., Jr.; Bergeron, J. David

PUBLISHER: Brady Company

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

FORMAT: Study Guide/Workbook, 214 pp., $8.95; Teacher Guide, 322 pp., $14.95; Text, 550 pp., $18.95

TITLE: ***Emergency Care: Assessment and Intervention*** (3rd ed., 1982)
AUTHOR: Warner, Carmen G.
PUBLISHER: C. V. Mosby Company
11830 Westline Industrial Drive
St. Louis, MO 63146
(800) 325-4177, ext. 10
FORMAT: Text, 693 pp., $31.95

TITLE: ***Emergency Care in the Streets*** (2nd ed., 1983)
AUTHOR: Caroline, Nancy L.
PUBLISHER: Little, Brown and Company
Medical Division
200 West Street
Waltham, MA 02154
(617) 890-0250
FORMAT: Study Guide/Workbook, 230 pp., $11.95; Text, 603 pp., $17.95

TITLE: ***Emergency Medical Technician*** (1977)
DEVELOPER: Georgia Department of Education
PUBLISHER: Vocational-Technical Education Consortium of States (V-TECs)
795 Peachtree Street, NE
Atlanta, GA 30365
(404) 897-6162
FORMAT: Tasks/Objectives/Competencies, $64 for nonmembers

TITLE: ***Emergency Medical Technician*** (rev. ed., 1982)
PUBLISHER: 916 Vocational Technical Institute
AVAILABILITY: Minnesota Curriculum Services Center
3554 White Bear Avenue
White Bear Lake, MN 55110
(612) 770-3943
FORMAT: Modules/LAPs, 17, $2.50 each

TITLE: ***Emergency Medical Technician: A Catalog of Performance Objectives, Criterion-Referenced Measures, and Performance Guides*** (1978)
SERIES: **V-TECS Catalogs**
AUTHOR: Hirst, Betty; Rohrbach, J. Jerome
PUBLISHER: Florida Department of Education
Knott Building
Tallahassee, FL 32301-8101
(904) 488-0405
FORMAT: Tasks/Objectives/Competencies, 166 pp., free to Florida vocational educators

TITLE: ***Emergency Medical Technician: Instructional Resource Guide*** (1982)
AUTHOR: Eldridge, Priscilla
PUBLISHER: Virginia Vocational Curriculum Center
2200 Mountain Road
Glen Allen, VA 23060
(804) 262-7439
FORMAT: Teacher Guide, 336 pp., $26

TITLE: ***Emergency Medical Technician: National Standard Curriculum, 1984 Instructor's Lesson Plans*** (3rd ed., 1984)
PUBLISHER: Brady Company
AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000
FORMAT: Teacher Guide, 270 pp., $13.95

TITLE: ***Emergency Medical Treatment: A Text for EMT-As and EMT-Intermediates*** (1982)
AUTHOR: Caroline, Nancy L.
PUBLISHER: Little, Brown and Company
Medical Division
200 West Street
Waltham, MA 02154
(617) 890-0250
FORMAT: Answer Book, 151 pp., $4.95; Study Guide/Workbook, 231 pp., $9.95; Text, 581 pp., $16.95

TITLE: ***Emergency Medicine: A Clinical Approach to Challenging Problems*** (1982)
AUTHOR: Greenberg, Michael I.; Roberts, James R.
PUBLISHER: F. A. Davis Company
1915 Arch Street
Philadelphia, PA 19103
(800) 523-4049
FORMAT: Text, 395 pp., $40

TITLE: ***Emergency Nursing: A Case Study Approach*** (1984)
AUTHOR: Patrizzi, Judith O.; Tackett, Maria K.
PUBLISHER: Brady Company
AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000
FORMAT: Text, 512 pp., $21.95

TITLE: ***Emergency Patient Care for the EMT-A*** (1981)
AUTHOR: Barber, Janet; Dillman, Peter
PUBLISHER: Reston Publishing Company
AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000
FORMAT: Study Guide/Workbook, 175 pp., $6.95; Teacher Guide; Text, 755 pp., $19.95; $25 a set

TITLE: ***Emergency Patient Care: Prehospital Ground and Air Procedures*** (1983)
AUTHOR: Jacobs, Lenworth M.; Bennett, Barbara R.
PUBLISHER: Macmillan Publishing Company
Front and Brown Streets
Riverside, NJ 08370
(212) 702-2000
FORMAT: Manual, 360 pp., $18.95

TITLE: ***Emergency Victim Care*** (1983-84)
PUBLISHER: Ohio State University
Instructional Materials Laboratory
Room 139
154 W Twelfth Avenue
Columbus, OH 43210-1302
(614) 422-5001
SPONSOR: Ohio State Department of Education

BEST COPY AVAILABLE

AVAILABILITY: May be obtained on loan from East Central Network

FORMAT: Modules/LAPs, 14, $13; Refresher Course, 165 pp., $8.50; Study Guide/Workbook, 288 pp., $4.50; Teacher Guide, 424 pp., $15; Text, 468 pp., $13

TITLE: ***Essentials of Emergency Medicine*** (1981)

AUTHOR: Rund, Douglas A.

PUBLISHER: Appleton-Century-Crofts

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

FORMAT: Text, 464 pp., $24.95

TITLE: ***First Aid and Emergency Medical Care*** (1980)

AUTHOR: Rogers, James H.; Spear, Richard D.; Plummer, Portia F.; Bridges, Larry M.

PUBLISHER: Kendall/Hunt Publishing Company
2460 Kerper Boulevard
Dubuque, IA 52001
(319) 589-2822

FORMAT: Text, 128 pp., $7.95

TITLE: ***The First Minutes*** (1983)

AUTHOR: Reinberg, Steven E.; Pendagast, Edward L., Jr.

PUBLISHER: Emergency Training
181 Post Road, W
Westport, CT 06880
(203) 227-3350

FORMAT: Text, 128 pp., $7.95

TITLE: ***First Responder*** (1986)

DEVELOPER: Fire Protection Publications
Oklahoma State University
Stillwater, OK 74078
(800) 654-4055

FORMAT: Text, 300 pp., $16

TITLE: ***First Responder*** (2nd. ed., 1986)

PUBLISHER: Brady Company

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

FORMAT: Study Guide/Workbook, 165 pp., $8.50; Teacher Guide, 192 pp., $11.95; Text, 330 pp., $11.95

TITLE: ***First Responder: A Skills Approach*** (2nd ed., 1986)

AUTHOR: Karren, Keith J.; Hafen, Brent Q.

PUBLISHER: Morton Publishing Company
Unit 4
925 W Kenyon Avenue
Englewood, CO 80110
(303) 761-4805

FORMAT: Study Guide/Workbook, 175 pp., $8.95; Teacher Guide 100 pp., $10; Text, 350 pp., $17.95

TITLE: ***The First Responder: The Critical First Minutes*** (1982)

AUTHOR: Judd, Richard L.; Ponsell, Dwight D.

PUBLISHER: C. V. Mosby Company
11830 Westline Industrial Drive
St. Louis, MO 63146
(800) 325-4177, ext. 10

FORMAT: Text, 281 pp., $14.95

TITLE: ***Guide to Problems and Practices in First Aid and Emergency Care*** (4th ed., 1981)

AUTHOR: Brennan, William T.; Crowe, James W.

PUBLISHER: William C. Brown Publishers
2460 Kerper Boulevard
Dubuque, IA 52001
(319) 589-2822

FORMAT: Teacher Guide, free; Text, 208 pp., $8.80

TITLE: ***Human Anatomy and Physiology*** (2nd ed., 1983)

AUTHOR: Spence, Alexander P.; Mason, Elliott B.

PUBLISHER: Benjamin-Cummings Publishing Company
South Street
Reading, MA 01867
(415) 854-6020

FORMAT: Text, 794 pp., $24

TITLE: ***Manual of Advanced Prehospital Care*** (2nd ed., 1984)

AUTHOR: Walraven, Gail; Jones, Karen Milazzo; Ochs, Ginger Murphy; Nerney, Margaret F.

PUBLISHER: Brady Company

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

FORMAT: Manual, 416 pp., $17.95

TITLE: ***Mosby's Manual of Emergency Care: Practices and Procedures*** (2nd ed., 1984)

AUTHOR: Budassi, Susan A.; Barber, Janet

PUBLISHER: C. V. Mosby Company
11830 Westline Industrial Drive
St. Louis, MO 63146
(800) 325-4177, ext. 10

FORMAT: Text, 704 pp., $25.95

TITLE: ***Paramedic*** (rev. ed., 1983)

PUBLISHER: 916 Vocational Technical Institute

AVAILABILITY: Minnesota Curriculum Services Center
3554 White Bear Avenue
White Bear Lake, MN 55110
(612) 770-3943

FORMAT: Modules/LAPs, 36, $2.50 each

TITLE: ***Paramedic Skills Manual*** (1980)

AUTHOR: Phillips, Charles

PUBLISHER: Brady Company

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

FORMAT: Manual, 288 pp., $19.95

TITLE: ***Prehospital Care for the EMT-Intermediate: Assessment and Intervention*** (1983)

AUTHOR: LaFevers, Stephen; Marshall, Loren

PUBLISHER: Reston Publishing Company

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

FORMAT: Text, 288 pp., $16.95

TITLE: ***Prehospital Emergency Care and Crisis Intervention*** (rev. 2nd ed., 1983)

AUTHOR: Hafen, Brent Q.; Karren, Keith J.

PUBLISHER: Morton Publishing Company
Unit 4
925 W Kenyon Avenue
Englewood, CO 80110
(303) 761-4805

FORMAT: Study Guide/Workbook, 307 pp., $8.95; Teacher Guide, $10; Text, 688 pp., $22.95

TITLE: ***Protocols for Advanced Emergency Management*** (1981)

AUTHOR: Larson, Linda L.

PUBLISHER: Brady Company

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

FORMAT: Text, 288 pp., $17.95

TITLE: ***Structure and Function of the Human Body*** (3rd ed., 1983)

AUTHOR: Memmler, Ruth Lundeen; Wood, Dena Lin

PUBLISHER: J. B. Lippincott Company

AVAILABILITY: Harper and Row
2350 Virginia Avenue
Hagerstown, MD 21740
(800) 638-3030

FORMAT: Study Guide/Workbook, $8.25; Text, 225 pp., $15.75 hardback, $13.95 paperback

TITLE: ***Your First Response in the Streets*** (1984)

AUTHOR: Briese, Garry L.; Schottke, David

PUBLISHER: Little, Brown and Company
Medical Division
200 West Street
Waltham, MA 02154
(617) 890-0250

FORMAT: Text, 289 pp., $14.95

REFERENCE BOOKS/MANUALS/HANDBOOKS

TITLE: ***Accidental Emergency Handbook*** (5th ed., 1985)

AUTHOR: Wilson, David H.; Flowers, Michael

PUBLISHER: Butterworth Publishers
80 Montvale Avenue
Stoneham, MA 02180
(617) 438-8464

FORMAT: Manual, 256 pp., $26.95

TITLE: ***Care of the Acutely Ill and Injured: Proceedings, International Congress of Emergency Surgery, Brighton, 5th, 1981*** (1982)

AUTHOR: Wilson, David H.; Marsden, Andrew K.; eds.

DEVELOPER: Casualty Surgeons Association of Great Britain

PUBLISHER: John Wiley and Sons
Wiley Medical
605 Third Avenue
New York, NY 10158
(212) 850-6418

FORMAT: Collection, 300 pp., $55.95

TITLE: ***Current Emergency Diagnosis and Treatment*** (1983)

AUTHOR: Mills, John; Ho, Mary T.; Trunkey, Donald D.; eds.

PUBLISHER: Lange Medical Publications
Drawer L
Los Altos, CA 94023
(415) 984-4526

FORMAT: Text, 738 pp., $24

TITLE: ***Current Emergency Therapy*** (1984)

AUTHOR: Edlich, R. F.; Spykes, D.

PUBLISHER: Appleton-Century-Crofts

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

FORMAT: Reference Material, 1506 pp., $95

TITLE: ***EMT Manual*** (1984)

SERIES: **Saunders Blue Books**

AUTHOR: Soper, Roy G.; MacDonald, Steven C.; Copass, Michael K.; Eisenberg, Mickey S.

PUBLISHER: W. B. Saunders Company
W Washington Square
Philadelphia, PA 19105
(215) 574-4808

FORMAT: Manual, 285 pp., $15.95

TITLE: ***Emergency Medical Therapy*** (2nd ed., 1982)

SERIES: **Saunders Blue Books**

AUTHOR: Eisenberg, Mickey S.; Copass, Michael K.

PUBLISHER: W. B. Saunders Company
W Washington Square
Philadelphia, PA 19105
(215) 574-4808

FORMAT: Manual, 432 pp., $16.95

TITLE: ***Emergency Medicine*** (1984)

AUTHOR: May, Harold L.

PUBLISHER: John Wiley and Sons
Wiley Medical
605 Third Avenue
New York, NY 10158
(212) 850-6418

FORMAT: Reference Material, 1062 pp., $85

TITLE: ***Emergency Medicine: A Comprehensive Study Guide*** (1984)

DEVELOPER: American College of Emergency Physicians

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PUBLISHER: McGraw-Hill Book Company
Princeton Road
Hightstown, NJ 08520
(609) 426-5254

FORMAT: Study Guide/Workbook, 1056 pp., $85

TITLE: ***Emergency Medicine: A Quick Reference for Primary Care*** (1982)

AUTHOR: Hocutt, John E., Jr.

PUBLISHER: Appleton-Century-Crofts

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

FORMAT: Text, 464 pp., $20.50

TITLE: ***Emergency Medicine: Concepts and Clinical Practice*** (1983)

AUTHOR: Rosen, Peter; Baker, Frank J.; Braen, G. Richard; Dailey, Robert H.; Levy, Richard C.

PUBLISHER: C. V. Mosby Company
11830 Westline Industrial Drive
St. Louis, MO 63146
(800) 325-4177, ext. 10

FORMAT: Text, 1626 pp., $110.95

SERIES: **Health Affairs Information Guide, Gale Information Guide Library**

TITLE: ***Volume 9, Emergency Medical Services Systems: A Guide to Information Sources*** (1981)

AUTHOR: Fernandez-Caballero, Carlos; Fernandez-Caballero, Marianne; eds.

PUBLISHER: Gale Research Company
Book Tower
Detroit, MI 48226
(313) 961-2242

FORMAT: Reference Material, 199 pp., $62

TITLE: ***Life Support Handbook*** (1984)

AUTHOR: Minkiewicz, William F.

PUBLISHER: Aquila Publishing Company
P.O. Box 21264
Columbia, SC 29221
(803) 781-7166

FORMAT: Manual, 40 pp., $9.95; Reference Material, 140 pp., $9.95

TITLE: ***MGH Textbook of Emergency Medicine*** (2nd ed., 1983)

AUTHOR: Wilkins, Earle W., Jr.

PUBLISHER: Williams and Wilkins Company
428 E Preston Street
Baltimore, MD 21202
(301) 528-4221

FORMAT: Text, 990 pp., $77.50

TITLE: ***Mobile Intensive Care Manual*** (1982)

PUBLISHER: J. B. Lippincott Company

AVAILABILITY: Harper and Row
2350 Virginia Avenue
Hagerstown, MD 21740
(800) 638-3030

FORMAT: Manual, 227 pp., $8.50

TITLE: ***Paramedic Handbook*** (1983)

AUTHOR: Jensen, Steven A.

PUBLISHER: Multi-Media Publishing
1393 S Inca Street
Denver, CO 80223
(303) 778-1404

FORMAT: Manual, 176 pp., $8.95

TITLE: ***The Paramedic Manual*** (1980)

SERIES: **Saunders Blue Books**

AUTHOR: Copass, Michael K.; Eisenberg, Mickey

PUBLISHER: W. B. Saunders Company
W Washington Square
Philadelphia, PA 19105
(215) 574-4808

FORMAT: Manual, 304 pp., $12.95

TITLE: ***Procedures and Techniques in Emergency Medicine*** (1982)

PUBLISHER: Williams and Wilkins Company
428 E Preston Street
Baltimore, MD 21202
(301) 528-4221

FORMAT: Text, 404 pp., $46

TITLE: ***Textbook of Basic Emergency Medicine*** (2nd ed., 1980)

AUTHOR: Miller, Robert H.

PUBLISHER: C. V. Mosby Company
11830 Westline Industrial Drive
St. Louis, MO 63146
(800) 325-4177, ext. 10

FORMAT: Text, 278 pp., $19.95

AUDIOVISUAL MATERIALS

TITLE: ***EMT-A: Continuing Educational Program Recertification Teaching Manual*** (1984)

AUTHOR: Lacy, David J.; Raley, Francis M.

PUBLISHER: Burnell Company/Publishers
P.O. Box 304
Mankato, MN 56001
(507) 625-4302

ANNOTATION: Included in this continuing education program for EMT-A recertification are 18 units of text, with objectives, totaling about 184 pages; 290 slides keyed to the text; a cassette tape of physiological and pathological sounds; one copy each of the pretest, posttest, and answer sheet for each unit; and student reference worksheets. The entire program comes in a heavy-duty three-ring binder with pockets for the slides and cassette tape.

FORMAT: Multimedia Kit, $298

SERIES: **Emergency Medical Care**

TITLE: ***Emergency Childbirth*** (1975)

Environmental Injuries (1975)

Heart Attack, Stroke, Unconsciousness and Communicable Disease (1975)

Injuries to the Head and Spine (1976)

Major Wounds and Multiple Injuries (1975)

Medical Emergencies: Respiratory Distress, Acute Abdomen, and Acute Emotional Disturbance (1976)

Orthopedics: Emergency Treatment (1983)

Shock and Hemorrhage (1975)

PUBLISHER: Trainex
P.O. Box 116
Garden Grove, CA 92642
(800) 854-2485

ANNOTATION: In this series, live, full-color photography illustrates medical techniques appropriate for several types of emergencies. *Emergency Childbirth* explains the anatomy and physiology of the pregnant woman and fetus, step-by-step techniques for handling a normal childbirth, and care and handling of the newborn. Procedures for such complications as breech presentation, prolapsed cord, and excessive bleeding are also discussed. Heat burns, chemical burns, electrical burns, radiation burns, exposure to extremes of temperatures, poisonings, stings, and bites are studied in *Environmental Injuries*. In *Heart Attack, Stroke, Unconsciousness, and Communicable Disease*, art and realistic live photography are used to identify these types of emergencies and explain the appropriate care. *Injuries to the Head and Spine* includes step-by-step demonstrations of the specific actions that must be performed from the arrival of emergency medical technicians until the patient's condition is stabilized and he or she is on the way to the hospital. The rationale underlying each action is discussed. In *Major Wounds and Multiple Injuries*, graphic photographs of actual injuries teach the user to identify injuries and take measures to preserve life and, when possible, to preserve function of affected organs and limbs. Principles of managing patients with open wounds, penetrating wounds, chest and abdomen trauma, and injuries to the scalp, head, neck, and eyes are presented. *Medical Emergencies* focuses on three common emergencies. The portion on respiratory distress shows how to clear the airway and how to treat victims of asthma attacks, emphysema, and anaphylactic shock. In *Orthopedics*, assessing the victim and splinting the affected extremity are emphasized. *Shock and Hemorrhage* illustrates the signs, symptoms, and treatment of shock and the three methods of controlling hemorrhage.

FORMAT: Slidetapes, 8, $120 each, 30-day rental $25 each; Sound Filmstrips, 8, $120 each, 30-day rental $25 each; Videotapes, 8, $140 each, 14-day rental $55 each

SERIES: **Emergency Medical Services**

TITLE: ***Anatomy and Physiology*** (1982)
Bleeding Control (1982)
CPR (1983)
Extrication (n.d.)
Fractures (n.d.)
Moving and Handling (n.d.)
Patient Assessment (1985)
Vital Signs (n.d.)
Wounds and Bandaging (n.d.)

PUBLISHER: The Ohio State University
Instructional Materials Laboratory
Room 139
154 W Twelfth Avenue
Columbus, OH 43210-1302
(614) 422-5001

ANNOTATION: These materials demonstrate the proper techniques to employ in a variety of medical emergency situations. The skills demonstrated range from measures to determine the extent of the injury to methods for treating various wounds. Throughout the series, the safe use of rescue tools and devices is stressed.

FORMAT: Slidetapes, 9, $20-170 each, $520 a set

SERIES: **Human Physiology** (1975-80)

TITLE: ***Acid-Base Imbalance***
Anatomy and Physiology of the Arterial System
The Basic Structure and Function of Muscle
Chemical Control of Respiration
Coronary Circulation and Cardiac Metabolism
Electrophysiology of the Heart
General Properties of Nerve, Parts A-G
The Heart as Pump: Mechanical Correlates
Hemodynamics
An Introduction to Cardiovascular Physiology
Introduction to Cellular Anatomy and Physiology, Parts 1, 2, and 3
Mechanical Properties of Muscle
Mechanisms of Hemostasis and Fibrinolysis
Microcirculation, Parts 1 and 2
Molecular Basis of Muscle Contraction
Physiological Control of Cardiac Output and Venous Return, Parts 1 and 2
Physiological Properties of Blood
The Physiology of Cell Membranes and Biological Transports
Pulmonary Function: Mechanics and Ventilation
Regulation and Control of Peripheral Circulation
The Regulation and Control of the Heart
Renal Function 1
Temperature Control

PUBLISHER: United States Department of Health, Education, and Welfare
Public Health Service

AVAILABILITY: National Audiovisual Center
Customer Services Section PY
8700 Edgeworth Drive
Capitol Heights, MD 20743-3701
(301) 763-1896

ANNOTATION: This series presents a comprehensive review of the anatomy and physiology of the cardiovascular system.

FORMAT: Slidetapes, 24, 34-214 min. each, $45-200 each, $2,185 a set; Study Guide/Workbooks, Test Booklets, free

TITLE: ***Life or Death*** (1977)

PUBLISHER: Film Communicators
11136 Weddington Street
N. Hollywood, CA 91601
(800) 423-2400

ANNOTATION: This film contrasts the medical treatment provided by amateur ambulance workers with that given by thoroughly trained emergency medical service professionals.

FORMAT: 16mm Film, 25 min., $470

TITLE: ***The Paramedic*** (1977)

DEVELOPER: Charles Braverman

AVAILABILITY: Pyramid Film and Video
P.O. Box 1048
Santa Monica, CA 90406-1048
(800) 421-2304

ANNOTATION: Paramedics from the Santa Ana Fire Department handle several actual medical emergencies in this film. In the narration, these men describe the functions of each of their jobs. Their training, duty hours, and relations with police, physicians, nurses, and other fire department employees is explored.

FORMAT: 16mm Film, 16 min., $350, rental $55; Videotape, 20 min., ½-inch Beta or VHS, $350, rental $55

TITLE: ***Paramedic Skills Manual*** (1981)

PUBLISHER: Brady Company

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

ANNOTATION: The text provides a thorough investigation and description of fundamental and advanced invasive skills. Using numerous line drawings and illustrations, it describes and demonstrates how each skill is employed in a real emergency. A special chapter on radio communications is included. The lecture slides are meant to be used as a supplement to the text.

FORMAT: Slides, 639, $250; Text, 265 pp., $21.95

TITLE: ***Trauma Slides*** (1985)

PUBLISHER: Morton Publishing Company
Unit 4
925 W Kenyon Avenue
Englewood, CO 80110
(303) 761-4805

ANNOTATION: All of the trauma pictures from Morton's emergency medical service publications are incorporated into this series, along with many slides never published before. A wide range of emergency situations is covered, including gunshot and knife wounds, burns, dislocations, drug and alcohol emergencies, poisonings, sudden infant deaths, fractures, dog and snake bites, emergency child births, amputations, and head, face, and neck injuries.

FORMAT: Slides, 420, $299

COMPUTER SOFTWARE

TITLE: ***Administar*** (n.d.)

PUBLISHER: C. V. Mosby Company
11830 Westline Industrial Drive
St. Louis, MO 63146
(800) 325-4177, ext. 10

ANNOTATION: *Administar* is a student/faculty record-keeping and tracking system for hospitals and agencies. Preprogrammed for writing NLN reports, it lets the user create up to ten different categories of information, with up to twelve different sections in each category. Available for IBM-PC, Apple IIe and II+, and IBM and Apple compatibles. *Administar* requires two disk drives and an 80 column printer.

FORMAT: Computer Software, $495

TITLE: ***Ambulance 10-33*** (1983)

AUTHOR: Dyche, William J.

DEVELOPER: EMS Software

PUBLISHER: University of Osteopathic Medicine and Health Sciences
3200 Grand Avenue
Des Moines, IA 50312
(515) 271-1400

ANNOTATION: Realistic scenarios provide patient management problems typical of the prehospital emergency care setting. Each scenario includes essential information regarding chief complaint, history, patient assessment, and vital signs. Multiple choice and true/false questions are included. Available for Apple and Apple compatibles, this program requires 48K and Apple DOS 3.3. It comes with documentation.

FORMAT: Computer Software, $35

TITLE: ***The Human Body: An Overview*** (1981)

DEVELOPER: Brainbank
220 Fifth Avenue
New York, NY 10001
(212) 686-6565

ANNOTATION: Active graphics and sounds motivate the student to complete this basic, complete overview of the human body. This program requires an Apple II+.

FORMAT: Computer Software, $90.00

Fluid and Shock Therapy

TEXTS

TITLE: ***IV Therapy*** (1983)

AUTHOR: McGill, Shirley L.; Smith, Joan R. Warren

PUBLISHER: Brady Company

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

FORMAT: Study Guide/Workbook, 160 pp., $12.95

TITLE: ***Intravenous Therapy*** (1983)

AUTHOR: Galliart, Barbara

PUBLISHER: Oklahoma State Department of Vocational and Technical Education
Curriculum and Instructional Materials Center
1500 W Seventh Avenue
Stillwater, OK 74074
(800) 654-4502

FORMAT: Curriculum Guide, 833 pp., $61

TITLE: ***Intravenous Therapy: A Handbook for Practice*** (1981)

AUTHOR: Coco, Charlene

PUBLISHER: C. V. Mosby Company
11830 Westline Industrial Drive
St. Louis, MO 63146
(800) 325-4177, ext. 10

FORMAT: Text, 181 pp., $19.95

TITLE: ***Principles and Practices of Intravenous Therapy*** (3rd ed., 1982)

AUTHOR: Plumer, Ada

PUBLISHER: Little, Brown and Company
Medical Division
200 West Street
Waltham, MA 02154
(617) 890-0250

FORMAT: Text, 533 pp., $14.95

TITLE: ***Using Anti-Shock Trousers (MAST): A Guide for the EMT*** (1982)

AUTHOR: MacDonald, Steven C.; Butman, Alexander M.; Wayne, Marvin A.; McSwain, Norman E., Jr.; eds

PUBLISHER: Emergency Training
181 Post Road, W
Westport, CT 06680
(203) 227-3350

FORMAT: Text, 162 pp., $9.95

REFERENCE BOOKS/MANUALS/HANDBOOKS

TITLE: ***Intravenous Medications: A Handbook for Nurses and Other Allied Health Personnel*** (4th ed., 1985)

AUTHOR: Gahart, Betty L.

PUBLISHER: C. V. Mosby Company
11830 Westline Industrial Drive
St. Louis, MO 63146
(800) 325-4177, ext. 10

FORMAT: Manual, 548 pp., $18.95

AUDIOVISUAL MATERIALS

TITLE: ***Blood Procurement Techniques: Venipuncture*** (1975)

PUBLISHER: Veteran's Administration Medical Center

AVAILABILITY: National Audiovisual Center
Customer Services Section PY
8700 Edgeworth Drive
Capitol Heights, MD 20743-3701
(301) 763-1896

ANNOTATION: This tape demonstrates the proper procedure for obtaining a blood sample through venipuncture by the vacutaner method.

FORMAT: Videotape, 13 min., ½-inch Beta or VHS, $80

SERIES: **Fluids and Electrolytes** (1981)

TITLE: ***Module 1, The Basics***
Module 2, Extracellular Fluid
Module 3, Intracellular Fluid
Module 4, Potassium
Module 5, Calcium
Module 6, pH
Module 7, Metabolic Acidosis and Alkalosis
Module 8, Respiratory Acidosis and Alkalosis

AUTHOR: Lee, Carla A.; Stroot, Violet R.; Schapu, C. Ann

PUBLISHER: Brady Company

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

ANNOTATION: Written from a clinical-care nursing perspective, this series provides the groundwork in fluid and electrolyte balances. All facets of understanding fluids and electrolytes are covered, and the appropriate signs and symptoms are explained simply and clearly.

FORMAT: Slidetapes, 8, $95 each, $725 a set; Sound Filmstrips, 8, $75 each, $570 a set; Videotapes, 8, ½-inch Beta or VHS, or ¾-inch U-Matic, $175 each, $1260 a set

TITLE: ***Going into Shock*** (1981)

PUBLISHER: Pyramid Film and Video
P.O. Box 1048
Santa Monica, CA 90406-1048
(800) 421-2304

ANNOTATION: This emergency medicine training film presents an organized system for treating shock in victims of traumatic injury. It shows how to define shock, how to recognize and treat the three types of shock, and how to prevent or reverse shock. A step-by-step method for assessing the severity of shock, treating the patient, and monitoring the patient's progress is presented.

FORMAT: 16mm Film, 17 min., $395, rental $65; Videotape, 17 min., ½-inch VHS, $395, rental $65

SERIES: **Shock** (1980)

TITLE: ***Module 1, Hemodynamics of Perfusion***
Module 2, Perfusion Failure
Module 3, Cerebral Perfusion Failure
Module 4, Shock Lung
Module 5, Volume Repletion in Shock
Module 6, Drug Therapy in Shock

AUTHOR: Thomas, Lauraine A.

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

ANNOTATION: The processes of and treatments for shock are explained thoroughly, along with the principles behind them. Shock is discussed in terms of its anatomical and physiological effects.

FORMAT: Slidetapes, 6, $95 each, $540 a set; Sound Filmstrips, 6, $75 each, $425 a set; Videotapes, 6, ½-inch Beta or VHS, or ¾-inch U-Matic, $175 each, $945 a set

Trauma

TEXTS

TITLE: ***Emergency Management of Skin and Soft Tissue Wounds: An Illustrated Guide*** (1984)

AUTHOR: Kaplan, Ernest N.; Hentz, Vincent R.

PUBLISHER: Little, Brown and Company
Medical Division
200 West Street
Waltham, MA 02154
(617) 890-0250

FORMAT: Text, 416 pp., $29.50

TITLE: ***Head Injury*** (1980)

AUTHOR: Bakay, Louis; Glasauer, Franz E.; Alker, George J.

PUBLISHER: Little, Brown and Company
Medical Division
200 West Street
Waltham, MA 02154
(617) 890-0250

FORMAT: Text, 445 pp., $37.50

TITLE: ***Trauma Reference Manual*** (1985)

AUTHOR: Cardona, Virginia

PUBLISHER: Brady Company

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

FORMAT: Manual, 416 pp., $19.95

AUDIOVISUAL MATERIALS

TITLE: ***Agricultural Traumas: Traumas to the Head*** (1978)

AUTHOR: Donham, Kelly J; Knapp, L. W.; Piercy, Larry R.

PUBLISHER: University of Iowa
Department of Preventive Medicine and Environmental Health
Institute of Agricultural Medicine and Environmental Health

AVAILABILITY: National Audiovisual Center
Customer Services Section PY
8700 Edgeworth Drive
Capitol Heights, MD 20743-3701
(301) 763-1896

ANNOTATION: Three typical agricultural accidents are depicted here, along with their results: anhydrous ammonia eye burn, corneal laceration, and suffocation in a grain bin. The behavioral, environmental, and machine-related factors that contribute to these and other accidents are analyzed.

FORMAT: Slidetape, $65

TITLE: ***Basic Trauma Life Support*** (1985)

AUTHOR: Campbell, John Emory

PUBLISHER: Brady Company

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

ANNOTATION: These materials discuss the skills needed for assessing, resuscitating, stabilizing, and transporting trauma victims. Those conditions which cannot be stabilized in the field are identified, and immediate transport of these victims is stressed.

FORMAT: Slides, 486, $395; Teacher Guide, 128 pp., $14.95; Text, 224 pp., $16.95

SERIES: **Burn Trauma** (1978)

TITLE: ***Module 1, Emergency Management of Burn Trauma***

Module 2, Pathogenesis of Burn Trauma: Part 1

Module 3, Pathogenesis of Burn Trauma: Part 2

Module 4, Fluid Resuscitation in Burn Trauma

Module 5, Management of Burn Trauma Wounds

Module 6, Functional Management/Burn Wound Closure

Module 7, Psychosocial Survival in Burn Trauma

AUTHOR: Thomas Lauraine A.

PUBLISHER: Brady Company

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

ANNOTATION: This program is designed to teach students and interested paranursing professionals the relevant techniques for assessing and intervening in burn trauma. A case study approach highlights the major periods of care during the burn patient's therapy, along with interventions necessary to correct physiological and psychological malfunctions.

FORMAT: Slidetapes, 7, 22–28 min. each, $95 each, $630 a set; Sound Filmstrips, 7, 22–28 min. each, $75 each, $495 a set; Videotapes, 7, 22–28 min. each, ½-inch Beta or VHS, or ¾-inch U-Matic, $175 each, $1100 a set

TITLE: ***Cool It*** (1978)

PUBLISHER: U.S. Department of Defense
Department of the Navy

AVAILABILITY: National Audiovisual Center
Customer Services Section PY
8700 Edgeworth Drive
Capitol Heights, MD 20743-3701
(301) 763-1896

ANNOTATION: Basic first aid procedures for burns are described here. The viewer learns to classify burns by severity (first, second, and third degree burns) and by type (thermal, electrical, and chemical). The film introduces the Four C's of burn care: cool the burn with water, cover the burn with dressing, call for help, and calm the victim. Special precautions and procedures for dealing with victims of electrical burns are also described.

FORMAT: 16mm Film, 19 min., $200; Videotape, ½-inch Beta or VHS, ¾-inch U-Matic, $95

SERIES: **Emergency Medicine**

TITLE: ***Bleeding: What To Do*** (1973)

Burn Emergency (1977)

Eye Emergency (1979)

The Trauma Patient (1977)

PUBLISHER: Pyramid Film and Video
P.O. Box 1048
Santa Monica, CA 90406-1048
(800) 421-2304

ANNOTATION: Animation, models, and dramatic re-creations illustrate how to care for a bleeding victim immediately after an accident in *Bleeding: What To Do*. Among the skills covered are how to distinguish among arterial, venous, and internal bleeding, how to stop blood flow, how to improvise bandages, and how to apply a tourniquet. *Burn Emergency* introduces an easy-to-remember, step-by-step protocol for burn care, "The Burn Care Bs and Cs," and shows how to care for burn victims until treatment can begin at a hospital or burn center. Actual emergency treatment teams demonstrate how to identify and treat thermal burns, electrical burns, and chemical burns. Animated color charts show how to assess the degree of burn damage. *Eye Emergency* shows how to prevent and how to treat eye accidents. Animation shows the structure of the eye and how it can be protected. Rescue personnel demonstrate how to treat foreign bodies in the eye, chemical burns of the eye, and sharp, blunt, and penetrating injuries to the eye. Case histories emphasize that 95 percent of all eye injuries could have been prevented. Using typical victims of traumatic injury, *Trauma Patient* describes the anatomical and physiological effects of trauma and presents an organized system for stabilizing the patient and assessing the patient's injuries. It emphasizes

managing the airway, providing adequate ventilation and circulation, handling head and spine injuries properly, and rapidly surveying the patient's injuries to establish priorities for treatment.

FORMAT: 16mm Films, 16–24 min. each, $295–450 each, rental $55–65 each; Videotapes, 16–24 min. each, ½-inch VHS, $295–395 each, rental $55–65 each

TITLE: ***Life Support during Extrication*** (1971)

DEVELOPER: L. A. Fire Department

PUBLISHER: Film Communicators
11136 Weddington Street
N Hollywood, CA 91601
(800) 423-2400

ANNOTATION: Included in this discussion of emergency medical care are methods for treating shock, bleeding, heart and respiratory problems, fractures, and amputations. The importance of providing life support while extricating victims from crashes is emphasized.

FORMAT: Slidetape, $130

COMPUTER SOFTWARE

SERIES: **Clinical Simulations**

TITLE: ***Automobile Accident CCS-8114*** (1981)

Burn Patient CCS-8002 (1981)

Chest Trauma CCS-8007 (1981)

Chest Trauma Assessment PIP-81200 (1981)

Flail Chest CCS-8225 (1982)

Head Trauma CCS-8222 (1982)

PUBLISHER: MEDI-SIM
P.O. Box 13267
660 S Fourth
Edwardsville, KS 66113
(913) 441-2881

ANNOTATION: Designed for use in training critical-care nurses, respiratory therapists, and pulmonary specialists, these simulations provide students with immediate feedback on their responses to several realistic pulmonary emergencies. The exercises test the student's knowledge and use of procedures for airway management, ventilation, interpretation of arterial blood gases, acid-base balancing, chest physiotherapy, and general respiratory care. *Automobile Accident* covers the treatment and care of a patient who suffers a pneumothorax and multiple fractures. *Burn Patient* stresses maintaining fluid and electrolyte balance and providing oxygen and ventilator therapy. Knowledge of blood gas interpretation with emphasis on acid/base balance is tested. The treatment of a victim of an automobile accident suffering severe chest trauma is covered in *Chest Trauma*. Knowledge of treatment for pneumothorax and shock lung are tested. *Chest Trauma Assessment* explains techniques for inspecting and palpitating the chest. Emphasis is given to the pathophysiology commonly detected through these procedures. In *Flail Chest*, a patient with multiple rib fractures resulting in a flail section is treated. In *Head Trauma*, the student treats the victim of an automobile accident who sustains a head injury resulting in a subdural hematoma with increased intracranial pressure. These simulations require an Apple II+ or IIe.

FORMAT: Computer Software, 5 programs, $200 each, 10% discount on orders of 10 programs or more

TITLE: ***Shock*** (1983)

SERIES: **Nursing**

PUBLISHER: MEDI-SIM
P.O. Box 13267
660 S Fourth
Edwardsville, KS 66113
(913) 441-2881

ANNOTATION: Five modules make up this program. Module I introduces the physiological alterations that occur in shock. Module II compares cardiogenic, hypovolemic, neurogenic, septic, and anaphylactic shock. Assessing patients who are in shock is covered in *Module III. Pharmacological approaches* to treating shock are covered in Module IV. And Module V discusses potential complications of adult respiratory distress syndrome, disseminated intravascular coagulation, and acute tubular necrosis. This program can be used on Apple II+ and IIe computers with a disk drive and at least 48K.

FORMAT: Computer Software, $900, 10% discount on orders of 10 programs or more

TITLE: ***Trauma*** (1985)

SERIES: **MED ED Simulation Kit**

AUTHOR: Clogston, Curtis, P., M.D.

PUBLISHER: Medical Educational Software Group
P.O. Box 40592
San Antonio, TX 78229
(512) 733-1264

ANNOTATION: *Trauma* is a realistic patient simulator for teaching physicians, registered nurses, and paramedics the priorities for assessing and stabilizing acute trauma patients. It requires an Apple II, II+, or IIe computer with at least 64K.

FORMAT: Computer Software, $175; Teacher Guide, free

Obstetric/Gynecologic/Pediatric Emergencies

TEXTS

TITLE: ***Emergency Management of Pediatric Trauma*** (1985)

AUTHOR: Mayer, Thom

PUBLISHER: W. B. Saunders Company
W Washington Square
Philadelphia, PA 19105
(215) 574-4808

FORMAT: Text, 551 pp., $65

TITLE: ***Emergency Medical Treatment: Children*** (1984)

AUTHOR: Vogel, Stephen N.; Manhoff, David H.

PUBLISHER: EMT
2026 Beechwood
Wilmette, IL 60091
(312) 943-1900

FORMAT: Manual, 28 pp., $4.95

TITLE: ***Pediatric Cardiac Dysrhythmias*** (1985)

AUTHOR: Curley, Martha A. Q.

PUBLISHER: Brady Company

BEST COPY AVAILABLE

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

FORMAT: Text, 224 pp., $17.95

TITLE: ***Pediatric Emergency Management: Guidelines for Rapid Diagnosis and Therapy*** (1982)

AUTHOR: Cohen, Stanley A.

PUBLISHER: Brady Company

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

FORMAT: Manual, 416 pp., $27.95. Reference Material, 224 pp., $34.95

REFERENCE BOOKS/MANUALS/HANDBOOKS

TITLE: ***Manual of Emergency Pediatrics*** (3rd ed., 1984)

AUTHOR: Reece, Robert M.

PUBLISHER: W. B. Saunders Company
W. Washington Square
Philadelphia, PA 19105
(215) 574-4808

FORMAT: Manual, 832 pp., $29.95

TITLE: ***Pediatric Drug Handbook*** (1977)

AUTHOR: Shirkey, Harry C.

PUBLISHER: W. B. Saunders Company
W. Washington Square
Philadelphia, PA 19105
(215) 574-4808

FORMAT: Reference Material, 198 pp., $10.95

TITLE: ***Quick Reference to Pediatric Emergencies*** (3rd ed., 1984)

AUTHOR: Pascoe, Delmer J.; Gossman, Moses

PUBLISHER: J. B. Lippincott Company

AVAILABILITY: Harper and Row
2350 Virginia Avenue
Hagerstown, MD 21740
(800) 638-3030

FORMAT: Reference Material, 618 pp., $29.50

TITLE: ***Textbook of Pediatric Emergency Medicine*** (1983)

AUTHOR: Fleisher, Gary; Ludwig, Stephen

PUBLISHER: Williams and Wilkins Company
428 E. Preston Street
Baltimore, MD 21202
(301) 528-4221

FORMAT: Text, 1381 pp., $97.50

AUDIOVISUAL MATERIALS

TITLE: ***Emergency Obstetrics*** (1980)

DEVELOPER: Medi-Cine Productions

PUBLISHER: Pyramid Film and Video
P.O. Box 1048
Santa Monica, CA 90406-1048
(800) 421-2304

ANNOTATION: This film teaches nurses and emergency medical personnel basic procedures for assisting in normal deliveries wherever a baby is born—whether in a hospital, a home, an ambulance, or some other setting. Using lectures, models, drawings, animation, and pictures of actual live births, it discusses and demonstrates each step in the delivery process.

FORMAT: 16mm Film, 21 min., $395, rental $65. Videotape, 21 min., ½-inch VHS, $395, rental $65.

TITLE: ***Emergency Room Management of Asthma in Children*** (1978)

PUBLISHER: Ohio Regional Medical Audiovisual Consortium

AVAILABILITY: National Audiovisual Center
Customer Services Section PY
8700 Edgeworth Drive
Capitol Heights, MD 20743-3701
(301) 763-1896

ANNOTATION: The examination and treatment of a child displaying moderate wheezing is depicted. Exercises in the accompanying manual allow student participation in the child's treatment.

FORMAT: Study Guide/Workbook; Videotape, 22 min., ½-inch Beta or VHS, or ¾-inch U-Matic, $90 a set.

COMPUTER SOFTWARE

TITLE: ***Croup CCS-8111*** (1981)

SERIES: **Clinical Simulations**

PUBLISHER: MEDI-SIM
P.O. Box 13267
660 S. Fourth
Edwardsville, KS 66113
(913) 441-2881

ANNOTATION: Designed for use in the training of critical-care nurses, respiratory therapists, and pulmonary-care specialists, this tutorial covers the care and treatment of a child with a severe upper respiratory infection. Knowledge of humidity, oxygen, and aerosol therapy are tested. This program can be used on Apple II computers.

FORMAT: Computer Software, $200 each, 10% discount on orders of 10 programs or more.

Cardiac and Respiratory Emergencies

TEXTS

TITLE: ***Advanced Cardiac Life Support: Certification Preparation and Review*** (1985)

AUTHOR: Shade, Bruce R.; Moran, V.; Ballinger, M.

PUBLISHER: Brady Company

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

FORMAT: Study Guide/Workbook, 640 pp., $24.95

TITLE: ***Cardiac Arrest and CPR: Assessment, Planning, and Intervention*** (2d ed; 1982)

AUTHOR: Auerbach, Paul; Budassi, Susan

PUBLISHER: Aspen Systems Corporation
1600 Research Boulevard
Rockville, MD 20850
(800) 638-8437

FORMAT: Text, 230 pp., $36

TITLE: ***Cardiac Emergencies*** (1984)

AUTHOR: Scheinman, Melvin M.

PUBLISHER: J. B. Lippincott Company

AVAILABILITY: Harper and Row
2350 Virginia Avenue
Hagerstown, MD 21740
(800) 638-3030

FORMAT: Text, 416 pp., $29.95

TITLE: ***The Cardiac Rhythms: A Systematic Approach to Interpretation*** (2nd ed., 1980)

AUTHOR: Phillips, Raymond E.; Feeney, Mary K.

PUBLISHER: W. B. Saunders Company
W Washington Square
Philadelphia, PA 19105
(215) 574-4808

FORMAT: Text, 419 pp., $18.50

TITLE: ***Commonsense Approach to Coronary Care: A Program*** (4th ed., 1984)

AUTHOR: Vinsant, Marielle Ortiz; Spence, Martha I.

PUBLISHER: C. V. Mosby Company
11830 Westline Industrial Drive
St. Louis, MO 63146
(800) 325-4177, ext. 10

FORMAT: Study Guide/Workbook, 362 pp., $19.95

TITLE: ***Comprehensive Cardiac Care: A Text for Nurses, Physicians, and Other Health Practitioners*** (5th ed., 1983)

AUTHOR: Andreoli, Kathleen G.; Fowkes, Virginia Hunn; Zipes, Douglas P.; Wallace, Andrew G.

PUBLISHER: C. V. Mosby Company
11830 Westline Industrial Drive
St. Louis, MO 63146
(800) 325-4177, ext. 10

FORMAT: Text, 406 pp., $19.95

TITLE: ***Coronary Care Unit Nursing: A Workbook in Clinical Aspects*** (1980)

ECG Arrhythmia Interpretation: A Programmed Text for Health Care Personnel (1979)

AUTHOR: Braun, Harold; Diettert, Gerald

PUBLISHER: Reston Publishing Company

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

FORMAT: Study Guide/Workbook, 258 pp., $15.95; Text, 312 pp., $18.95 hardback, $16.95 paperback

TITLE: ***ECG Workout: Exercise in Arrhythmia Interpretation*** (1985)

AUTHOR: Hufr, Jane; Doenbach, David P.; White, Roger D.

PUBLISHER: J. B. Lippincott Company

AVAILABILITY: Harper and Row
2350 Virginia Avenue
Hagerstown, MD 27140
(800) 638-3030

FORMAT: Study Guide/Workbook, 257 pp., $10.95

TITLE: ***EMT Defibrillation*** (1983)

AUTHOR: Copass, Michael K.; Eisenberg, Mickey S.; Damon, Susan K.

PUBLISHER: Emergency Training
181 Post Road, W
Westport, CT 06880
(203) 227-3350

FORMAT: Text, 168 pp., $10.95

TITLE: ***EMT-D Prehospital Defibrillation*** (1985)

AUTHOR: Stults, Kenneth

PUBLISHER: Brady Company

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

FORMAT: Text, 448 pp., $19.50

TITLE: ***Emergency Cardiac Care*** (2nd ed., 1981)

AUTHOR: Huszar, Robert S.

PUBLISHER: Brady Company

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

FORMAT: Text, 448 pp., $19.50

TITLE: ***Emergency Treatment of Acute Respiratory Disease*** (3rd ed., 1981)

AUTHOR: Stringer, Lewellyn W.

PUBLISHER: Brady Company

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

FORMAT: Text, 192 pp., $11.95

TITLE: ***Intensive Coronary Care: A Manual for Nurses*** (4th ed., 1983)

AUTHOR: Meltzer, Lawrence E.; Pinneo, Rose; Kitchell, J. Roderick

PUBLISHER: Brady Company

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

FORMAT: Study Guide/Workbook, 214 pp., $12.95; Text, 312 pp., $23.95

TITLE: ***Lung Sounds*** (1983)

AUTHOR: Forgacs, Paul

PUBLISHER: W. B. Saunders Company
W Washington Square
Philadelphia, PA 19105
(215) 574-4808

FORMAT: Text, 84 pp., $8.95

TITLE: ***Manual of Electrocardiography*** (1981)
AUTHOR: Mudge, Gilbert H., Jr.
PUBLISHER: Little, Brown and Company
Medical Division
200 West Street
Waltham, MA 02154
(617) 890-0250
FORMAT: Manual, 195 pp., $14.95

TITLE: ***Monitoring Heart Rhythm*** (2nd ed., 1982)
PUBLISHER: John Wiley and Sons
605 Third Avenue
New York, NY 10158
(212) 850-6000
FORMAT: Study Guide/Workbook, 196 pp., $19.95

TITLE: ***Practical Paramedic Procedures*** (2nd ed., 1981)
AUTHOR: Wasserberger, Jonathan; Eubanks, David
PUBLISHER: C. V. Mosby Company
11830 Westline Industrial Drive
St. Louis, MO 63146
(800) 325-4177, ext. 10
FORMAT: Text, 222 pp., $17.95

TITLE: ***A Primer of Cardiac Arrhythmias: A Self-Instructional Program*** (1979)
AUTHOR: Harris, Celia C.
PUBLISHER: C. V. Mosby Company
11830 Westline Industrial Drive
St. Louis, MO 63146
(800) 325-4177, ext. 10
FORMAT: Text, 124 pp., $14.95

TITLE: ***Rapid Interpretation of EKGs: A Programmed Course*** (3rd ed., 1981)
AUTHOR: Dubin, Dale
PUBLISHER: Cover Publishing Company
P.O. Box 1092
Tampa, FL 33601
(813) 237-0266
FORMAT: Study Guide/Workbook, 295 pp., $9.95

TITLE: ***Understanding Electrocardiography: Physiological and Interpretive Concepts*** (4th ed., 1984)
AUTHOR: Conover, Mary Boudreau
PUBLISHER: C. V. Mosby Company
11830 Westline Industrial Drive
St. Louis, MO 63146
(800) 325-4177, ext. 10
FORMAT: Text, 305 pp., $17.95

REFERENCE BOOKS/MANUALS/HANDBOOKS

TITLE: ***Cardiopulmonary Cerebral Resuscitation*** (1981)
AUTHOR: Safar, Peter
PUBLISHER: W. B. Saunders Company
W Washington Square
Philadelphia, PA 19105
(215) 574-4808
FORMAT: Text, 240 pp., $17.50

TITLE: ***Endocrine and Metabolic Emergencies*** (1984)
AUTHOR: Hamburger, Stephen; Rush, David; Bosker, Gideon
PUBLISHER: Brady Company
AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000
FORMAT: Text, 224 pp., $19.95

TITLE: ***Sudden Cardiac Death in the Community*** (1984)
AUTHOR: Eisenberg, Mickey S.; Bergner, Larry; Hallstrom, Alfred
PUBLISHER: Praeger Publishers
521 Fifth Avenue
New York, NY 10175
(212) 599-8413
FORMAT: Text, 190 pp., $27.95

AUDIOVISUAL MATERIALS

TITLE: ***Basic Arrythmias*** (1980)
AUTHOR: Walraven, Gail
PUBLISHER: Brady Company
AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000
ANNOTATION: These materials together provide a self-contained, self-instructional course on cardiac arrhythmia. The slides contain lessons which correlate directly with the text, including lecture material and practice ECG rhythm strips.
FORMAT: Slides, 487, $435; Text, 480 pp., $17.95

SERIES: **Basic Life Support**
TITLE: ***CPR for Heartsavers*** (1982)
New Breath of Life (rev. ed., 1980)
New Pulse of Life (rev. ed., 1980)
PUBLISHER: Pyramid Film and Video
P.O. Box 1048
Santa Monica, CA 90406-1048
(800) 421-2304
ANNOTATION: Intended for use in training the lay public in short CPR courses, *CPR for Heartsavers* provides the knowledge necessary for administering CPR. Included are discussions of risk factors in heart attacks, signals and actions for survival, the ABC's of CPR, mouth-to-mouth breathing, and one-rescuer CPR. *New Breath of Life* demonstrates two of the ABC's of basic life support: *A* for airway opened, and *B* for breathing restored. Included are demonstrations of how to open the airway of an unconscious victim, how to administer mouth-to-mouth breathing, and how to save a choking victim with back blows and abdominal thrusts. *New Pulse of Life* presents the principles behind and techniques of CPR. Colorful visuals, mannequins, and dramatic reenactments with live subjects are used to demonstrate current standards and guidelines for opening the airway and restoring breathing and circulation.
FORMAT: 16mm Films, 20–28 min. each, $375–395 each, rental $55–65 each; Videotapes, 20–28 min. each, ½-inch Beta or VHS, or ¾-inch U-Matic, $375–395 each, rental $55–65 each

BEST COPY AVAILABLE

TITLE: ***A Breath in Time*** (1977)

PUBLISHER: U.S. Department of Defense
Department of the Navy

AVAILABILITY: National Audiovisual Center
Customer Services Section PY
8700 Edgeworth Drive
Capitol Heights, MD 20743-3701
(301) 763-1896

ANNOTATION: This film presents a simple explanation of the relationship between respiration and circulation in providing oxygen to the brain. Examples of the causes, signs, and symptoms of asphyxia are given. Techniques for dislodging obstructions in the airway are demonstrated, as are the three basic steps for lifesaving treatment. An example of accidental electrocution is used to explain cardiac arrest. Art and anatomical models help demonstrate CPR techniques.

FORMAT: 16mm Film, 30 min., $320

TITLE: ***Choking: To Save a Life*** (1977)

PUBLISHER: Encyclopedia Britannica Educational Corporation
425 N Michigan Avenue
Chicago, IL 60611
(800) 558-6968

ANNOTATION: This film explains how to apply choking rescue techniques to others and to oneself. Paramedics demonstrate the back blow, the abdominal thrust, and the finger probe.

FORMAT: 16mm Film, 12 min., $240; Videotape, 12 min., ½-inch Beta or VHS, or ¾-inch U-Matic, $150

TITLE: ***Chronic Obstructive Pulmonary Disease*** (1976)

PUBLISHER: United States Department of Health, Education, and Welfare
Public Health Service
National Institutes of Health

AVAILABILITY: National Audiovisual Center
Customer Services Section PY
8700 Edgeworth Drive
Capitol Heights, MD 20743-3701
(301) 763-1896

ANNOTATION: The clinical, physiological, and anatomical features of chronic obstructive pulmonary disease are defined in this tape. Included are discussions of the diagnosis and clinical course of copd, bronchiolar responses in copd, the characteristics of chronic bronchitis and of the two major types of emphysema, and the effects of emphysema on the patient and on pulmonary physiology.

FORMAT: Slidetape, $45

SERIES: **Emergency Medical Care** (1974)

TITLE: ***Cardiopulmonary Resuscitation***

Emergencies at Home

Emergencies Out of Doors

Fractures, Sprains, and Dislocations

Paramedics: The Professionals

Wounds, Bleeding, and Shock

PUBLISHER: Encyclopedia Britannica Educational Corporation
425 N Michigan Avenue
Chicago, IL 60611
(800) 554-9862

ANNOTATION: In covering the entire range of sudden, unexpected injuries from heart attack to drug overdose, this series explodes some of the old myths about what to do in a medical emergency and clearly demonstrates what steps one should take. Viewers learn how to perform cardiopulmonary resuscitation, how to stop bleeding, what to do in case of fractures and other bone injuries, and how to care for victims of shock until the doctor comes. Individual filmstrips discuss injuries frequently encountered in the home and in recreation out of doors. What rescuers should not do is also depicted and emphasized, and viewers learn the value of paramedics. Discussion guides and a color poster are included.

FORMAT: Sound Filmstrips, 6, 9 min. each, $35 each, $189 a set

TITLE: ***Five Minutes to Live*** (1976)

DEVELOPER: Kentucky Department of Health and Public Safety

AVAILABILITY: National Audiovisual Center
Customer Services Section PY
8700 Edgeworth Drive
Capitol Heights, MD 20743-3701
(301) 763-1896

ANNOTATION: With the help of Telecare, an advanced emergency care system, Houston paramedics save the life of a coronary victim. The space-program origin of this system's components is explained.

FORMAT: 16mm Film, 18 min., $190; Videotape, 18 min., ½-inch Beta or VHS, $95

TITLE: ***The Heart Attack*** (1972)

DEVELOPER: Siegel, Norman

PUBLISHER: CRM Educational Films
647 Via De La Valle
P.O. Box 641
Del Mar, CA 92014
(619) 453-5000

ANNOTATION: This film explains the primary causes of heart disease and heart attacks, then follows the transit of a coronary victim from ambulance to operating table.

FORMAT: Videotape, 27 min., ½-inch Beta or VHS, or ¾-inch U-Matic, $360, rental $50

SERIES: **Human Physiology**

TITLE: ***Acid-Base Balance: General Principles*** (1978)

Acid-Base Imbalance (1978)

Cardiovascular Signs: A Professional Version (1979)

Electrophysiology of the Heart (1976)

The Regulation and Control of the Heart (1976)

PUBLISHER: United States Department of Health, Education, and Welfare
Public Health Service
National Institutes of Health

AVAILABILITY: National Audiovisual Center
Customer Services Section PY
8700 Edgeworth Drive
Capitol Heights, MD 20743-3701
(301) 763-1896

ANNOTATION: A broad range of material on human physiology is covered by this series. *Acid-Base Balance* introduces the major acidic product of cellular metabolism, identifies three substrate sources of fixed acids within the body, and defines acids and bases in terms of proton donation and acceptance. The significance of the Henderson-Hasselbalch Equation is explained, and the renal and respiratory mechanisms for maintaining the body's acid-base balance are described. Through a discussion of

four acid-base problems—metabolic acidosis, respiratory acidosis, metabolic alkalosis, and respiratory alkalosis—*Acid-Base Imbalance* explains the roles potassium and chloride play in acid-base imbalance. *Cardiovascular Signs* presents the major signs of cardiovascular disease and describes the characteristics of pulses and cardiac sounds, especially those which may indicate a life-threatening emergency. *Electrophysiology of the Heart* introduces some of the factors contributing to the resting membrane and action potentials of cardiac muscle cells. Characteristics of membrane potentials which affect the rate of automatic cells, the propogation of impulses through the conducting pathways of the heart, and the velocity of conduction are also explained. *The Regulation and Control of the Heart* considers autonomic innervation of the heart, the reflexes which affect cardiac function, and the intrinsic and extrinsic controls of cardiac function. Included are the definition of cardiac output in equation form and a description of the Frank-Starling Law of the Heart.

FORMAT: Slidetapes, $55–85 each; Study Guides/Workbooks, Test Booklets, free

TITLE: ***Treating Heart Attacks*** (1976)

DEVELOPER: United Press International

PUBLISHER: Journal Films
930 Pitner
Evanston, IL 60202
(312) 328-6700

ANNOTATION: A portable monitor, originally created for the space program, is now being used by paramedics to treat heart attack victims.

FORMAT: Videotape, 10 min., ½-inch Beta or VHS, or ¾-inch U-Matic, $110, rental $35

COMPUTER SOFTWARE

TITLE: ***ACLS Simulations: An Algorithmic Review Program*** (rev. ed., 1985)

AUTHOR: Zelenski, Steven G.

DEVELOPER: EMS Software

PUBLISHER: University of Osteopathic Medicine and Health Sciences
3200 Grand Avenue
Des Moines, IA 50312
(515) 271-1400

ANNOTATION: These simulated emergencies help students learn and review the ACLS therapeutic algorithms.

FORMAT: Computer Software, $42, $32 each for 3 or more copies

SERIES: **Clinical Simulations**

TITLE: ***COPD CCS-7903*** (1982)

COPD CCS-8226 (1982)

Near Drowning CCS-8115 (1981)

Pediatric Asthmatic CCS-7902 (1979)

Pulmonary Edema CCS-8220 (1982)

Pulmonary Embolism CCS—8118 (1981)

Status Asthmaticus CCS-8110 (1981)

PUBLISHER: MEDI-SIM
P.O. Box 13267
660 S Fourth
Edwardsville, KS 66113
(913) 441-2881

ANNOTATION: Providing immediate feedback to responses to realistic emergencies, this computer-assisted instruction series can be used to train respiratory therapists, pulmonary care specialists, and critical care nurses. Two programs focus on chronic obstructive lung disease. The first, *COPD CCS-7903*, examines pulmonary function testing and interpretation, oxygen therapy, and chest physiotherapy for a patient with chronic obstructive pulmonary disease. In *COPD CCS-8226* the student must manage a COPD patient with an acute exacerbation of pulmonary infection. *Near Drowning* tests the student's knowledge of oxygen therapy and fluid/electrolyte balance in the care of a near drowning victim. Knowledge of pharmacology and oxygen therapy are tested by *Pediatric Asthma*. A myocardial infarction patient develops pulmonary edema in *Pulmonary Edema*, which discusses hemodynamic monitoring, ABG interpretation, and cardiovascular pharmacology. The student must detect and then begin the care for a pulmonary embolism in *Pulmonary Embolism*, and *Status Asthmaticus* discusses the care of an adult patient who suffers an asthma attack. All of these programs require an Apple II+ or IIe.

FORMAT: Computer Software, $200 each, 10% discount on orders of 10 programs or more

TITLE: ***Myocardial Infarction*** (1983)

SERIES: **Nursing**

PUBLISHER: MEDI-SIM
P.O. Box 13267
660 S Fourth
Edwardsville, KS 66113
(913) 441-2881

ANNOTATION: Four different modules present a survey of information on understanding and treating myocardial infarction. Module I discusses the pathophysiology of myocardial infarction. Common examinations used to diagnose myocardial infarction are presented in Module II. Module III covers the emergency care of a patient with myocardial infarction. The rehabilitation of a patient who has had a myocardial infarction is the focus of Module IV. This program requires an Apple II+ or IIe computer with one disk drive.

FORMAT: Computer Software, $200 each, 10% discount on orders of 10 programs or more

SERIES: **Programmed Instructional Packages**

TITLE: ***Blood Gas Interpretations (PIP-81101)*** (1981)

Oxygen Therapy (PIP-81100) (1981)

Respiratory Anatomy (PIP-81104) (1980)

PUBLISHER: MEDI-SIM
P.O. Box 13267
660 S Fourth
Edwardsville, KS 66113
(913) 441-2881

ANNOTATION: Originated for use in training critical-care nurses and oxygen therapists, this series emphasizes blood gas interpretation, acid/base balance, and oxygen therapy. The basic classification of ABG's, acid/base balance oxygenation, and normal and abnormal carbon dioxide levels within the human body are discussed in *Blood Gas Interpretations*. *Oxygen Therapy* identifies the goals of and indications for oxygen therapy. The effects of hypoxia are discussed as are the hazards and precautions of commonly used oxygen delivery devices. *Respiratory Anatomy* provides a review of the anatomy and physiology of the lungs and thorax. These programs can be used on Apple II+ and IIe computers.

FORMAT: Computer Software, $200 each, 10% discount on orders of 10 programs or more

TITLE: ***Sudden Death*** (1985)

SERIES: **MED ED Simulation Kit**

AUTHOR: Clogston, Curtis P., M.D.

PUBLISHER: Medical Educational Software Group
P.O. Box 40592
San Antonio, TX 78229
(512) 733-1264

ANNOTATION: This animated simulation provides physicians, registered nurses, and paramedics the opportunity to improve their life-support skills. It tests advanced as well as basic medical knowledge in a manner similar to the "megacode" evaluation. Users practice responding to tachycardia, ventricular fibrillation, and asystole rhythms. *Sudden Death* evaluates responses according to the standards established by the American Heart Association and identifies errors immediately. It can be used on all Apple II computers.

FORMAT: Computer Software, $175

Pharmacology

TEXTS

TITLE: ***Drug Dosage and Solutions Workbook*** (1982)

AUTHOR: Norville, Mary Ann Fravel

PUBLISHER: Brady Company

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

FORMAT: Text, 136 pp., $12.95

TITLE: ***Drugs and Solutions: A Programmed Introduction*** (4th ed., 1980)

AUTHOR: Keane, Clair B.; Fletcher, Sybil M.

PUBLISHER: W. B. Saunders Company
W Washington Square
Philadelphia, PA 19105
(215) 574-4808

FORMAT: Study Guide/Workbook, 166 pp., $9.95

TITLE: ***Emergency Pharmacology*** (1984)

AUTHOR: Gangeness, David E.; White, Roger Dean

PUBLISHER: Brady Company

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

FORMAT: Text, 224 pp., $19.95

TITLE: ***Essential Drug Dosage Calculations*** (1984)

AUTHOR: Hegstad, Lorrie N.; Hayek, Wilma

PUBLISHER: Brady Company

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

FORMAT: Study Guide/Workbook, 192 pp., $11.95

TITLE: ***Pharmacology*** (3rd ed., 1980)

AUTHOR: Penn, R. G.

PUBLISHER: W. B. Saunders Company
W Washington Square
Philadelphia, PA 19105
(215) 574-4808

FORMAT: Text, 336 pp., $13.50

TITLE: ***Programmed Mathematics of Drugs and Solutions*** (rev. ed., 1984)

AUTHOR: Weaver, Mabel E.; Koehler, Vera J.; Axcangelo, Virginia Poole

PUBLISHER: J. B. Lippincott Company

AVAILABILITY: Harper and Row
2350 Virginia Avenue
Hagerstown, MD 27140
(800) 638-3030

FORMAT: Study Guide/Workbook, 138 pp., $6.75

REFERENCE BOOKS/MANUALS/HANDBOOKS

TITLE: ***Emergency Drug Manual*** (1980)

AUTHOR: Ming, Dennis; Serra, Elaine

PUBLISHER: Reston Publishing Company

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

FORMAT: Manual, 131 pp., $7.95

TITLE: ***The Emergi-Dose Drug Guide*** (1985)

PUBLISHER: Emergi-Dose
152 Highland Street
Holden, MA 01520
(617) 829-9224

FORMAT: Chart, 8 1/2 X 11 inches, $23.95; 5 1/2 X 7 inches, $11.95

TITLE: ***Handbook of Basic Pharmacokinetics*** (rev. 2nd ed., 1982)

AUTHOR: Ritschel, W. A.

PUBLISHER: Drug Intelligence Publications
1241 Broadway
Hamilton, IL 62341
(217) 847-2504

FORMAT: Manual, 454 pp., $19.50

TITLE: ***Handbook of the Pharmacology of Emergency Drugs for Paramedics*** (1977)

AUTHOR: Ornato, Joseph P.; Romankiewicz, John A.

PUBLISHER: Drug Intelligence Publications
1241 Broadway
Hamilton, Il 62341
(217) 847-2504

FORMAT: Manual, 90 pp., $6

TITLE: ***Intravenous Medications: A Handbook for Nurses and Other Allied Health Personnel*** (4th ed., 1985)

AUTHOR: Gahart, Betty L.

PUBLISHER: C. V. Mosby Company
11830 Westline Industrial Drive
St. Louis, MO 63146
(800) 325-4177, ext. 10

FORMAT: Reference Material, 558 pp., $18.95

TITLE: ***Manual of Emergency Drugs*** (1984)
AUTHOR: Bledsoe, Bryan E.
PUBLISHER: Brady Company
AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000
FORMAT: Manual, 230 pp., $10.95

TITLE: ***Medication Cards for Clinical Use*** (rev. ed., 1986)
AUTHOR: Skidmore-Roth, Linda C.
PUBLISHER: Brady Company
AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000
FORMAT: Reference Material, 204 cards, $19.95

TITLE: ***Nursing '85 Drug Handbook*** (1985)
PUBLISHER: Springhouse Corporation
1111 Bethlehem Pike
Springhouse, PA 19477
(215) 646-8700
FORMAT: Manual, 878 pp., $18.95

AUDIOVISUAL MATERIALS

TITLE: ***Principles of Pharmacokinetics*** (1978)
AUTHOR: Askari, Amir; Bianchire, Joseph R.; Bryant, Shirley; Lindower, John O.; Lipicky, Raymond; Truitt, Edward B.
PUBLISHER: Ohio Regional Medical Audiovisual Consortium
AVAILABILITY: National Audiovisual Center
Customer Services Section PY
8700 Edgeworth Drive
Capitol Heights, MD 20743-3701
(301) 763-1896
ANNOTATION: The basic principles involved in the body's absorption, distribution, metabolism, and excretion of drugs and other chemicals are presented in this introduction to pharmacokinetics.
FORMAT: Videotape, 40 mins., ½-inch Beta or VHS, or ¾-inch U-Matic; Study Guide/Workbook, 80 pp.; Teacher Guide, 32 pp.; $125.00 a set

COMPUTER SOFTWARE

TITLE: ***Drug Interactions*** (1986)
AUTHOR: Dambro, Mark R.; Griffith, H. Winter
PUBLISHER: W. B. Saunders Company
W Washington Square
Philadelphia, PA 19105
(215) 574-4808
ANNOTATION: A quick reference to significant food and drug interactions, including probable life-threatening interactions, this program covers 600 generic and 3500 brand-name drugs. When the student or emergency medical services worker types in the name of a drug, the computer displays the drug's significant interactions and an accurate depiction of the drug's activity in combination with other individual drugs and classes of drugs. The program is available for use on Apple II+, IIe, III, and IBM PC computers with at least 64K.
FORMAT: Computer Software; Text, 32 pp.; $149 a set

TITLE: ***Drug Overdose CCS-8005*** (1981)
SERIES: **Clinical Simulations**
PUBLISHER: MEDI-SIM
P.O. Box 13267
660 S Fourth
Edwardsville, KS 66113
(913) 441-2881
ANNOTATION: Designed for use in training critical-care nurses, respiratory therapists, and pulmonary-care specialists, this program discusses respiratory support of drug overdose patients. Knowledge of oxygen therapy and ventilator therapy is tested. This tutorial can be used on Apple II+ and Apple IIe computers.
FORMAT: Computer Software, $200, 10% discount on orders of 10 programs or more

TITLE: ***Principles of Pharmacology*** (1985)
DEVELOPER: Biosource Software
Suite B
2105 S Franklin
Kirksville, MO 63501
(816) 665-5751
ANNOTATION: This three-disk tutorial is an introduction to pharmacology. The origins of pharmacology, the absorption and distribution of drugs, the biotransformation and elimination of drugs, the mechanisms of their actions, and drug safety and efficacy are examined. An Apple II+ or IIe is necessary for this program.
FORMAT: Computer Software, 3 disks, $49.95

Behavioral Emergencies

TITLE: ***Emergency Response to Crisis: A Crisis Intervention Guidebook for Emergency Service Personnel*** (1981)
AUTHOR: Mitchell, Jeffery T.; Resnik, H. L. P.
PUBLISHER: Brady Company
AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000
FORMAT: Manual, 218 pp., $18.95 hardback, $14.95 paperback

TITLE: ***Psychological Emergencies and Crisis Intervention*** (1985)
AUTHOR: Hafen, Brent Q.
PUBLISHER: Morton Publishing Company
Unit 4
925 W Kenyon Avenue
Englewood, CO 80110
(303) 761-4805
FORMAT: Text, 421 pp., $14.95

TITLE: ***The View from the Gurney Up: Dealing with People in Crisis and Emergency*** (1984)
AUTHOR: Ciancutti, Arthur R.
PUBLISHER: Technomic Publishing Company
P.O. Box 3535
851 New Holland Avenue
Lancaster, PA 17604
(717) 291-5609
FORMAT: Text, 111 pp., $14

Vehicle Operation

TITLE: ***Ambulance and EMS Driving*** (1982)
AUTHOR: Hanna, James
PUBLISHER: Reston Publishing Company
AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000
FORMAT: Text, 207 pp., $16.95

TITLE: ***Emergency Ambulance Driving*** (1985)
AUTHOR: Childs, B. J.; Ptacnik, D. J.
PUBLISHER: Brady Company
AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000
FORMAT: Text, 288 pp., $15.95

Miscellaneous Emergencies

TEXTS

TITLE: ***Airborne Care of the Ill and Injured*** (1983)
AUTHOR: McNeil, E. L.
PUBLISHER: Springer-Verlag New York
175 Fifth Avenue
New York, NY 10010
(212) 460-1500
FORMAT: Text, 208 pp., $17.95

TITLE: ***Geriatric Emergencies*** (1984)
AUTHOR: Schwartz, George; Bosker, Gideon M.
PUBLISHER: Brady Company
AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000
FORMAT: Text, 320 pp., $19.95

TITLE: ***Infection Control Procedures for Pre-Hospital Care Providers*** (1985)
AUTHOR: Zimmerman, Lynn; Neuman, Mary; Farr, Paul
PUBLISHER: Mercy Ambulance
357 Jefferson, SE
Grand Rapids, MI 49503
(616) 459-8228
FORMAT: Manual, 147 pp., $12.95

TITLE: ***Medical Emergencies*** (2nd ed., 1983)
AUTHOR: Cohen, Alan S.; Hoh, Howard K.; Combes, John R.
PUBLISHER: Little, Brown and Company
Medical Division
200 West Street
Waltham, MA 02154
(617) 890-0250
FORMAT: Text, 341 pp., $29.95

TITLE: ***Poisoning and Overdose*** (1982)
AUTHOR: Bayer, Marc J.; Rumack, Barry H.
PUBLISHER: Aspen Systems Corporation
1600 Research Boulevard
Rockville, MD 20850
(800) 628-8437
FORMAT: Text, 145 pp., $30

TITLE: ***Toxicologic Emergencies*** (1984)
AUTHOR: Bayer, Marc J.; Rumack, Barry H.; Wanke, Lee
PUBLISHER: Brady Company
AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000
FORMAT: Manual, 341 pp., $19.95

TITLE: ***Toxicologic Emergencies: A Comprehensive Handbook in Problem Solving*** (2nd ed., 1982)
AUTHOR: Goldfrank, Lewis R.; Kirstein, Robert; eds.
PUBLISHER: Appleton-Century-Crofts
AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000
FORMAT: Text, 447 pp., $38.95

COMPUTER SOFTWARE

TITLE: ***In-depth Poisoning*** (1984)
SERIES: **General Health Education and Fitness for Home and School**
PUBLISHER: Medical Software Consortium
P.O. Box 76069
St. Peters, MO 63376
(314) 928-7373
ANNOTATION: Information on non-toxic ingestions, overdoses, and other chemical emergencies is presented in this comprehensive tutorial. This program is not intended as a reference tool to replace trained medical personnel, but as a means for educating them. It works on Apple II + and IIe computers.
FORMAT: Computer Software, $39.95

Tests and Review Manuals

TITLE: ***Ambulance Calls: Review Problems in Emergency Care*** (1980)
AUTHOR: Caroline, Nancy L.
PUBLISHER: Little, Brown and Company
Medical Division
200 West Street
Waltham, MA 02154
(617) 890-0250
FORMAT: Study Guide/Workbook, 352 pp., $12.95

TITLE: ***Comprehensive Study Questions for the EMT-A: Basic Life Support*** (1982)
AUTHOR: Murray, Jim
PUBLISHER: Reston Publishing Company

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

FORMAT: Study Guide/Workbook, 151 pp., $9.95

TITLE: ***EMT Review: Examination Preparation*** (1984)

AUTHOR: Hanes, Tom; Hanes, Carolyn

PUBLISHER: Brady Company

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

FORMAT: Study Guide/Workbook, 208 pp., $11.95

TITLE: ***Emergency Medical Technician's Review*** (1983)

AUTHOR: Goller, Jeffrey M.

PUBLISHER: Appleton-Century-Crofts

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

FORMAT: Text, 150 pp., $14.95

TITLE: ***Emergency Medicine: A Clinical Update*** (2nd ed., 1985)

AUTHOR: Tandberg, Dan; Schwartz, George R.

PUBLISHER: Medical Examination Publishing Company
3003 New Hyde Park Road
New Hyde Park, NY 11042
(516) 328-6200

FORMAT: Study Guide/Workbook, 193 pp., $22.50

TITLE: ***Paramedic Field Review: Case Studies and Self-Assessment Questions*** (1982)

AUTHOR: Walraven, Gail; Miles, Julihn

PUBLISHER: Reston Publishing Company

AVAILABILITY: Prentice-Hall
P.O. Box 500
Englewood Cliffs, NJ 07632
(201) 592-2000

FORMAT: Study Guide/Workbook, 237 pp., $12.95

TITLE: ***The Paramedic Review Manual: Self Assessment Practice Tests*** (1985)

AUTHOR: Poltis, Jonathan F.; Cremeens, Judith A.; Tritt, Patricia L.

PUBLISHER: National Nursing Review

AVAILABILITY: ORCO
222 South Prospect Avenue
Park Ridge, IL 60048
(800) 626-6726

FORMAT: Test/Answer Booklet, 265 pp., $14.95

TITLE: ***Review Manual for the EMT: Intermediate*** (1985)

AUTHOR: Pracnick, Donald

PUBLISHER: National Nursing Review
No. 6
342 State Street
Los Altos, CA 94022
(415) 941-5784

FORMAT: Manual, 236 pp., $12.95

TITLE: ***Reviewing Basic EMT Skills: A Guide for Self-Evaluation*** (1982)

AUTHOR: Siegel, Bertram M.

PUBLISHER: Emergency Training
181 Post Road, W
Westport, CT 06680
(203) 227-3350

FORMAT: Study Guide/Workbook, 320 pp., $13.95

Appendix A—Journals

TITLE: ***The Aeromedical Journal***
PUBLISHER: JEMS Publishing Company
P.O. Box 1026
Solana Beach, CA 92075
(619) 481-1128
FORMAT: Journal, 6 issues per year, $19.95

TITLE: ***American Journal of Emergency Medicine***
AUTHOR: White, J. Douglas, ed.
PUBLISHER: W. B. Saunders Company
W Washington Square
Philadelphia, PA 19105
(215) 574-4808
FORMAT: Journal, 6 issues per year, $45 to individuals, $55 to institutions

TITLE: ***Annals of Emergency Medicine***
PUBLISHER: University Association for Emergency Medicine
American College of Emergency Physicians
P.O. Box 619911
Dallas, TX 75261-9911
(214) 659-0911
FORMAT: Journal, 12 issues per year, $50

TITLE: ***Archives of Emergency Medicine***
AUTHOR: Redmond, A. D., ed.
PUBLISHER: Emergency Medicine Research Society
Blackwell Scientific Publications Ltd.
Osney Mead
Oxford OX2 OEL England
(800) 621-9262
FORMAT: Journal, 4 issues per year, $125

TITLE: ***Digest of Emergency Medical Care***
AUTHOR: McKee, Gerald, ed.
PUBLISHER: P. M.
P.O. Box 2160
No. 204
14349 Victory Boulevard
Van Nuys, CA 91404
(818) 997-8389
FORMAT: Journal, 12 issues per year, $38

TITLE: ***Disaster Medicine***
AUTHOR: Safar, Peter, ed.
PUBLISHER: Club of Mainz for Emergency and Disaster Medicine Worldwide
Centrum Philadelphia
University City Science Center
Suite 230
3508 Market Street
Philadelphia, PA 19014
(215) 386-0774
FORMAT: Journal, 4 issues per year, $45

TITLE: ***The E.M.T. Journal***
PUBLISHER: C. V. Mosby Company
11830 Westline Industrial Drive
St. Louis, MO 63146
(800) 325-4177, ext. 10
FORMAT: Journal, 12 issues per year, $16.95 to individuals, $35.75 to institutions, $12 to members of National Association of Emergency Medical Technicians

TITLE: ***Emergency Medical Abstracts***
AUTHOR: Bukata, W. Richard, ed.
PUBLISHER: Charles B. Slack
6900 Grove Road
Thorofare, NJ 08086
(609) 848-1000
FORMAT: Journal, 12 issues per year, $95, $42.50 to residents and interns

TITLE: ***Emergency Medical Services: The Journal of Emergency Care and Transportation***
AUTHOR: Hart, Joan, ed.
PUBLISHER: Creative Age Publications
12849 Magnolia Boulevard
North Hollywood, CA 91607
(818) 782-7328
FORMAT: Journal, 6 issues per year, $12

TITLE: ***Emergency Medical Technician Legal Bulletin***
AUTHOR: George, James E., ed.
PUBLISHER: Med-Law Publishers
P.O. Box 293
Westville, NJ 08093
FORMAT: Journal, 4 issues per year, $15

TITLE: ***Emergency Medicine: A Comprehensive Review*** (1982)
AUTHOR: Kravis, Warner C., Thomas, Carmen G.
PUBLISHER: Aspen Systems Corporation
1600 Research Boulevard
Rockville, MD 20850
(800) 638-8437
FORMAT: Collection, 1,232 pp., $138.50

TITLE: ***Emergency Medicine Clinics***
AUTHOR: Cohen, Barbara, ed.
PUBLISHER: W. B. Saunders Company
W Washington Square
Philadelphia, PA 19105
(215) 574-4808
FORMAT: Journal, 3 issues per year, $36

TITLE: ***Emergency Medicine: Common Emergencies in Daily Practice***
AUTHOR: Wagner, Douglas W. E., ed.
PUBLISHER: Fisher Medical Publications
280 Madison Avenue
New York, NY 10016
(212) 686-0555
FORMAT: Journal, 21 issues per year, price varies

84
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TITLE: ***Emergency: The Journal of Emergency Services***

PUBLISHER: Emergency
P.O. Box 159
Carlsbad, CA 92008
(619) 438-2511

FORMAT: Journal, 12 issues per year, $12.98

TITLE: ***The FEMA Newsletter***

PUBLISHER: Federal Emergency Management Agency
Office of Public Affairs
500 C Street, SW
Washington, DC 20472
(202) 646-4600

FORMAT: Journal, 6 issues per year, free

TITLE: ***The Florida EMS Newsletter***

PUBLISHER: Florida Department of Health and Rehabilitative Services
The Florida EMS Newsletter
1317 Winewood Boulevard
Tallahassee, FL 32301
(904) 487-1911

FORMAT: Journal, 4 issues per year, free to Florida EMT's

TITLE: ***JEMS: Journal of Emergency Medical Services***

AUTHOR: Griffins, Keith, ed.

PUBLISHER: JEMS Publishing Company
P.O. Box 1026
Solana Beach, CA 92075
(619) 481-1128

FORMAT: Journal, 12 issues per year, $15.95

TITLE: ***JEN: Journal of Emergency Nursing***

AUTHOR: Anderson, M. Diann, ed.

PUBLISHER: Emergency Nurses Association
666 N Lake Shore Drive
Chicago, IL 60611
(312) 649-0297

FORMAT: Journal, 6 issues per year, $21

TITLE: ***Journal of Emergency Medicine***

AUTHOR: Roser, Peter, ed.

PUBLISHER: Pergamon Press
Fairview Park
Elmsford, NY 10523
(914) 592-7700

FORMAT: Journal, 6 issues per year, $35

TITLE: ***Life Support: The Nation's EMS Digest***

AUTHOR: Miniklewicz, William F., ed.

PUBLISHER: Aquila Publishing
P.O. Box 21261
Columbia, SC 29221
(803) 781-7166

FORMAT: Journal, 4 issues per year, $6.95 for 2 years

TITLE: ***Response: The Magazine of Search, Rescue, and Recovery***

PUBLISHER: JEMS Publishing Company
P.O. Box 1026
Solana Beach, CA 92075
(619) 481-1128

FORMAT: Journal, 6 issues per year, $14.95

TITLE: ***Technology for Emergency Medicine***

PUBLISHER: Emergency Care Research Institute
5200 Butler Pike
Plymouth Meeting, PA 19462
(215) 825-6000

FORMAT: Journal, 12 issues per year, $70

TITLE: ***Year Book of Emergency Medicine***

AUTHOR: Wagner, D. K., ed.

PUBLISHER: Year Book Medical Publishers
35 E Wacker Drive
Chicago, IL 60601
(800) 621-9262

FORMAT: Journal, 1 issue per year, $39.50

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APPENDIX

Sample Student Learning Guide

STUDENT LEARNING GUIDE 1

PROGRAM: Paramedic

TOPIC I: ROLES AND RESPONSIBILITIES OF THE PARAMEDIC

OUTCOME: Demonstrate knowledge of the Paramedic profession.

SPS 01.01: Define the role and responsibilities of the Paramedic.

INTRODUCTION:

According to the Florida Emergency and Nonemergency Medical Services Act, emergency and nonemergency medical transportation services represent a constructive and essential investment in the state. It is the intent of the Legislature to provide for emergency and nonemergency medical transportation and nontransportation services that are essential to the health and well-being of all citizens of the state. The purpose of this act is to protect and enhance the public health, welfare, and safety through the provision and overseeing of such services in a positive manner (Florida Statutes (F.S.), Section 401.411).

This learning guide is designed to provide students with a knowledge of key legal terms and definitions and all necessary legal information pertaining to disciplinary action and penalties.

OBJECTIVES

Knowledge Objectives

At the end of this learning guide, you will be able to:

1. Identify the meanings of key legal terms and definitions as used in the Florida Emergency and Nonemergency Medical Services Act.

2. Identify the legal, legislative, or moral aspects of emergency care in accordance with Section 401.411, F.S. Disciplinary action; penalties.

LEARNING ACTIVITIES FOR KNOWLEDGE OBJECTIVES 1-2

Objective 1	Learning Activities
Identify the meanings of key legal terms and definitions.	1. Read Information Sheet #1, "Medical Transportation Services: Key Terms and Definitions," to identify key terms and definitions as used in the Act. 2. Evaluate your knowledge of key terms and definitions by completing Self-Check #1, pages 110-112. 3. Check your answers with the correct ones provided in the Answer Key.
Objective 2	
Identify the legal, legislative, and moral aspects of emergency care.	4. Read Information Sheet #2, "Disciplinary action; Penalties--and the Law," to identify the legal, legislative, or moral aspects of emergency care. 5. Evaluate your knowledge of legal, legislative, and emergency aspects of emergency care by completing Self-Check #2, pages 115-116. 6. Check your answers with the correct ones provided in the Answer Key.
Objectives 1-2	7. If you feel confident that you have successfully achieved the objectives for this learning guide, ask your instructor for the Knowledge Test. If not, go back and repeat one or more of the learning activities for this learning guide.

INFORMATION SHEET #1

MEDICAL TRANSPORTATION SERVICES:
KEY TERMS AND DEFINITIONS

As used in Section 401.23, F.S., Florida Emergency and Nonemergency Medical Services Act, the term:

(1) "Advanced life support" means treatment of life-threatening medical emergencies through the use of techniques such as endotracheal intubation, the administration of drugs or intravenous fluids, telemetry, cardiac monitoring, and cardiac defibrillation by a qualified person, pursuant to rules of the department.
(2) "Advanced life support service" means any emergency medical transport or nontransport service which uses advanced life support techniques.
(3) "Advanced life support service license" means any authorization to provide advanced life support services pursuant to the provisions of this act.
(4) "Air ambulance" means any fixed-wing or rotary-wing aircraft used for, or intended to be used for, air transportation of sick or injured persons who may need medical attention during transport.
(5) "Air ambulance service" means any publicly or privately owned service, licensed in accordance with the provisions of this part, which operates air ambulances to transport persons requiring or likely to require medical attention during transport.
(6) "Ambulance" or "emergency medical services vehicle" means any privately or publicly owned land or water vehicle that is designed, constructed, reconstructed, maintained, equipped, or operated for, and is used for, or intended to be used for, land or water transportation of sick or injured persons who may need medical attention during transport.
(7) "Ambulance driver" means any person who meets the requirement of s.401.281.
(8) "Basic life support" means treatment of medical emergencies by a qualified person through the use of techniques such as patient assessment, cardiopulmonary resuscitation (CPR), splinting, obstetrical assistance, bandaging, administration of oxygen, application of medical antishock trousers, and other techniques described in the Emergency Medical Technician Basic Training Course Curriculum of the United States Department of Transportation. The term "basic life support" may also include other techniques which have been approved and are performed under conditions specified by rules of the department.
(9) "Basic life support service license" means the authorization to provide basic life support pursuant to the provisions of this act.
(10) "Certification" means any authorization issued pursuant to the provisions of this act to a person to act as an emergency medical technician or a paramedic.
(11) "Department" means the Department of Health and Rehabilitative Services.
(12) "Emergency medical technician" or "EMT" means any person who is trained in basic life support and who is certified by the department to perform such procedures in emergency situations.
(13) "Interhospital transfer" means the transportation by ambulance of a patient between two facilities licensed under Chapter 395 or Chapter 400, pursuant to this act.
(14) "Medical direction" means direct supervision by a physician through two-way voice communication or, when such voice communication is unavailable, through established standing orders, pursuant to rules of the department.

(15) "Medical director" means a physician who is employed or contracted by a licensed emergency medical services provider and who provides medical supervision, not including administrative and managerial functions, for daily operations and training pursuant to the provisions of this act.

(16) "Mutual aid agreement" means a written agreement between two or more entities whereby the signing parties agree to lend aid to one another under conditions specified in the agreement and as sanctioned by the governing body of each affected county.

(17) "Nonemergency medical transportation service" means any privately or publicly owned service employing a land, air, or water vehicle that is designed, constructed, reconstructed, maintained, equipped, or operated for, and which is used for, or intended to be used for, air, land, or water transportation of persons who are confined to wheelchairs or stretchers and whose conditions are such that they do not need and are not likely to need immediate medical attention during transport.

(18) "Paramedic" means a person who is certified by the department to perform basic and advanced life support, pursuant to the provisions of this act.

(19) "Permit" means any authorization issued pursuant to the provisions of this act for a vehicle to be operated as a basic life support or advanced life support transport vehicle or an advanced life support nontransport vehicle providing basic or advanced life support or as a nonemergency medical transportation vehicle.

(20) "Physician" means a practitioner who is licensed under the provisions of Chapter 458 or Chapter 459.

(21) "Physician's assistant" means a person who is approved by the Department of Professional Regulation to perform medical services under the provisions of s.458.347.

(22) "Registered nurse" means a practitioner who is licensed to practice professional nursing pursuant to the provisions of Chapter 464.

(23) "Secretary" means the Secretary of Health and Rehabilitative Services.

(24) "Service location" means any permanent location in or from which a licensee solicits, accepts, or conducts business under the provisions of this act.

SELF-CHECK #1

Learning Activity 2: Decision Square

Directions: Below are 16 definitions in Column A and 16 terms in Column B. Find the letter of the term in Column A that best matches the numbered term in Column B. Then place the number from Column B in the correct box in the decision square.

A	B	C	D
E	F	G	H
I	J	K	L
M	N	O	P

Column A

A. means treatment of life-threatening medical emergencies through the use of techniques such as endotracheal intubation and telemetry or cardiac monitoring by a qualified person.

B. means a physican who is employed or contracted by a licensed emergency medical services provider and who provides medical supervision for daily operations and training.

C. means any privately or publicly owned service employing a land, air, or water vehicle which is used for, or intended to be used for, transportation of persons who are confined to wheelchairs or stretchers and whose conditions are such that they do not need and are not likely to need immediate medical attention during transport.

Column B

1. service location
2. nonemergency medical transportation service
3. medical director
4. interhospital transfer
5. basic life support service license
6. emergency medical service vehicle
7. air ambulance
8. advanced life support service
9. permit
10. mutual aid agreement
11. medical direction

(continued)

Column A (continued)

D. means treatment of medical emergencies by a qualified person through the use of techniques such as patient assessment, bandaging, or application of medical antishock trousers and other techniques which have been approved and described in the EMT Basic Training Course Curriculum.

E. means the authorization to provide basic life support pursuant to the provisions of this act.

F. means a written agreement between two or more entities. The signing parties agree to lend aid to one another under conditions specified in the agreement.

G. means direct supervision by a physician through two-way voice communication or through established standing orders.

H. means any emergency medical transport or nontransport service which uses advanced life support techniques.

I. means any authorization issued for a vehicle to be operated as a basic or advanced life support transport or nontransport vehicle or as a nonemergency medical transportation vehicle.

J. means any privately or publicly owned land or water vehicle used for, or intended to be used for, transportation of sick or injured persons who may need medical attention during transport.

K. means any fixed-wing or rotary-wing aircraft used for, or intended to be used for, air transportation of sick or injured persons who may need medical attention during transport.

Column B (continued)

12. emergency medical technician
13. basic life support
14. air ambulance service
15. advanced life support service license
16. advanced life support

(continued)

Column A (continued)

L. means any person who is trained in basic life support and who is certified by the department to perform such procedures in emergency situations.

M. means the transportation by ambulance of a patient between two facilities licensed under Chapter 395 or Chapter 400.

N. means any authorization to provide advanced life support services.

O. means any publicly or privately owned service, licensed in accordance with the provisions of this part, which operates air ambulances to transport persons requiring or likely to require medical attention during transport.

P. means any permanent location in or from which a licensee solicits, accepts, or conducts business under the provisions of this act.

SELF-CHECK #1: ANSWER KEY

Learning Activity 2: Decision Square

A 16	B 3	C 2	D 13	34
E 5	F 10	G 11	H 8	34
I 9	J 6	K 7	L 12	34
M 4	N 15	O 14	P 1	34
34	34	34	34	34

If your totals do not add up to 34 across, down, and diagonally, go back and repeat one or more of the learning activities for this objective.

When you have successfully completed this Self-Check, continue on to the next page.

INFORMATION SHEET #2

DISCIPLINARY ACTION; PENALTIES--
AND THE LAW

In accordance with Section 401.411, F.S., Florida Emergency and Nonemergency Medical Services Act, the department may deny, suspend, or revoke a license, certificate, or permit or may reprimand or fine any licensee, certificate holder, or other person operating under the provisions of this act for any of the following reasons, including:

(a) Being convicted or found guilty in any jurisdiction of a crime that relates to practice as an emergency medical technician or paramedic when operating under the provisions of this act.

(b) Habitual lack of restraint, excessive drinking of alcoholic liquor, or addiction to narcotics.

(c) The conviction in any court in any state or in any federal court of a major crime, unless the person's civil rights have been restored.

(d) Knowingly making false claims; procuring (to obtain or secure), attempting to procure (for example, obtaining for the purpose of prostitution), or renewing a certificate to practice as an emergency medical technician or paramedic by fakery, fraudulent action, or misrepresentation.

(e) Unprofessional conduct, including, but not limited to, any departure from or failure to conform to the minimal prevailing standards of acceptable practice as an emergency medical technician or paramedic.

(f) Sexual misconduct with a patient, including inducing or attempting to induce the patient to engage, or engaging or attempting to engage the patient, in sexual activity outside the scope of the practice or the scope of generally accepted examination or treatment of the patient.

(g) Failing to give to the department, or its authorized representative, true information upon request regarding an alleged or confirmed violation of this act or rule of the department.

(h) Practicing as an emergency medical technician or other health care professional operating under the provisions of this act without reasonable skill and safety to patients by reason of illness, drunkenness, or the use of drugs, narcotics, or chemicals or any other substance or as a result of any mental or physical condition.

(i) Failing to report to the department any person known to be in violation of this act.

SELF-CHECK #2

Learning Activity 5: Quiz

1. The standards from which emergency care are established may come from statutes or be set by the department by rule or administrative order. Violation of one of these standards can lead to which of the following penalties?

   a. The department may deny, suspend, or revoke a license, certificate, or permit.
   b. The department may reprimand or fine any licensee.
   c. The department may reprimand or fine any certificate holder.
   d. all of the above
   e. b and c

2. The Florida Emergency and Nonemergency Medical Services Act is legislation that:

   a. establishes the rules necessary to carry out the purposes of this act.
   b. defines and establishes the penalties related to practice as an emergency medical technician and other health care service workers.
   c. establishes penalties of the performance of a wrongful or unlawful act.
   d. all of the above

3. A Paramedic is convicted in court of a felony (major crime). This means that the Paramedic:

   a. has been named as defendant in a malpractice suit.
   b. is protected by the act from liability.
   c. may no longer work as a result, unless one's civil rights have been restored.
   d. a and b

4. The Paramedic can be denied a certificate or license to practice for:

      1. knowingly making false claims.
      2. unprofessional conduct.
      3. sexual misconduct with a patient.
      4. failing to give the department true information regarding an alleged violation of the act.

   a. 1 and 2
   b. 2 and 3
   c. 3 and 1
   d. 1, 2, 3, and 4

Modified True-False

The following statements are true or false. If a statement is true, circle the "T" in the left margin, and do no more. If false, circle the "F" in the margin, underline the word or words that make the statement false, then write in the word or words that will make it true, in the space provided at the end of the statement.

T F 5. Paramedics are expected to report to the department any person known to be violating the act.

_____

T F 6. When practicing as a Paramedic or other health care professional, the worker should refrain from excessive drinking or addiction to narcotics.

_____

T F 7. Practicing as a Paramedic or other health care professional with reasonable skills and safety to patients can lead to a license or certificate being revoked or denied.

_____

SELF-CHECK #2: ANSWER KEY

1. C
2. D
3. C
4. D
5. T
6. T
7. F without or cannot

All of your answers should agree with the answers on the answer key. If you missed any, go back and repeat one or more of the learning activities for the Learning Guide.

If you feel confident that you have successfully achieved the objectives for this learning guide, ask your instructor or resource person for the knowledge test.

KNOWLEDGE TEST_____

PART A

Directions: Identify the meanings of these terms. Before each numbered definition, write the letter of the matching term.

Terms

A. emergency medical technician
B. permit
C. interhospital transfer
D. ambulance
E. advanced life support
F. advanced life support service license
G. medical director
H. nonemergency medical transportation service
I. medical direction
J. service location

Definitions

_____ 1. means any permanent location in or from which a licensee solicits, accepts, or conducts business under the provisions of the act.

_____ 2. means direct supervision by a physician.

_____ 3. means any privately or publicly owned service employing a land, air, or water vehicle which is used for, or intended to be used for, transportation of persons who are confined to wheelchairs or stretchers and whose conditions are such that they do not need and are not likely to need immediate medical attention during transport.

_____ 4. means treatment of life-threatening medical emergencies through the use of techniques such as endotracheal intubation and telemetry or cardiac monitoring by a qualified person.

_____ 5. means any person who is trained in basic life support and who is certified by the department to perform such procedures in emergency situations.

_____ 6. means a physician who is employed or contracted by a licensed emergency medical services provider and who provides medical supervision for daily operations and training.

_____ 7. means any authorization issued for a vehicle to be operated as a basic or advanced life support transport or nontransport vehicle or as a nonemergency medical transportation vehicle.

(Continued on the next page.)

Definitions

_____ 8. means any privately or publicly owned land or water vehicle used for, or intended to be used for, transportation of sick or injured persons who may need medical attention during transport.

_____ 9. means any authorization to provide advanced life support services.

_____ 10. means the transportation by ambulance of a patient between two facilities licensed under Chapter 395 or Chapter 400.

PART B

11. A Paramedic is convicted in court of a felony (a major crime). This means that the Paramedic:

    a. has been named as defendant in a malpractice suit.
    b. is protected by the act from liability.
    c. may no longer work as a result, unless civil rights have been restored.
    d. a and b

12. The Paramedic can be denied a certificate or license to practice for:

    1. knowingly making false claims.
    2. unprofessional conduct.
    3. sexual misconduct with a patient.
    4. failing to give the department true information regarding an alleged violation of the act.

    a. 1 and 2
    b. 2 and 3
    c. 3 and 1
    d. 1, 2, 3, and 4

Modified True-False

The following statements are true or false. If a statement is true, circle the "T" in the left margin, and do no more. If false, circle the "F" in the margin, underline the word or words that make the statement false, then write in the word or words that will make it true, in the space provided at the end of the statement.

T F 15. Paramedics are expected to report to the department any person known to be violating the act.

_____

(Continued on the next page.)

T F 16. When practicing as a Paramedic or other health care professional, the worker should refrain from excessive drinking or addiction to narcotics.

T F 17. Practicing as a Paramedic with reasonable skill and safety to patients can lead to a license or certificate being revoked or denied.

13. The standards from which emergency care are established may come from statutes or be set by the department by rule or administrative order. Violation of one of these standards can lead to which of the following penalties?

    a. The department may deny, suspend, or revoke a license, certificate, or permit.
    b. The department may reprimand or fine any licensee.
    c. The department may reprimand or fine any certificate holder.
    d. all of the above
    e. b and c

14. The Florida Emergency and Nonemergency Medical Services Act is legislation that:

    a. establishes the rules necessary to carry out the purposes of this act.
    b. defines and establishes the penalties related to practice as an emergency medical technician and other health care service workers.
    c. establishes penalties of the performance of a wrongful or unlawful act.
    d. all of the above
    e. a and c

ANSWER KEY FOR KNOWLEDGE TEST

PART A

1. J
2. I
3. H
4. E
5. A
6. G
7. B
8. D
9. F
10. C

PART B

11. C
12. D
13. D
14. D
15. T
16. T
17. F without or cannot

State of Florida
Department of Education
Tallahassee, Florida
Betty Castor, Commissioner
Affirmative action/equal opportunity employer

Division of Vocational, Adult, and Community Education

DVACE/07/89/200 123456789/89 HO 191 BK 89

CAREER MERIT ACHIEVEMENT PLAN
(CAREER MAP)

PARAMEDIC

(0317.020600)

STUDENT'S NAME

State of Florida

An affirmative action/equal opportunity employer

DEPARTMENT OF EDUCATION
Betty Castor, Commissioner

DIVISION OF VOCATIONAL, ADULT, AND COMMUNITY EDUCATION
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Student's Name _____

Student's ID Number _____

Student's Address _____

_____

Instructor's Name _____ **Initials** _____

School _____

_____

Date Started _____

PRIMARY JOB TITLE FOR THIS INSTRUCTIONAL PROGRAM

- Paramedic

RELATED JOB TITLES

- Ambulance Attendant (DOT #355.374-010)
- Ambulance Driver (DOT #913.683-010)

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CONTENTS

OVERVIEW 1

PURPOSES OF THE MAP 1

HOW TO USE THE MAP 1

RATING STUDENT PERFORMANCE 2

STUDENT PERFORMANCE STANDARDS 3

01.0 DEMONSTRATE KNOWLEDGE OF THE PARAMEDIC PROFESSION 3

02.0 DESCRIBE EMERGENCY MEDICAL SERVICE (EMS) SYSTEMS 3

03.0 DESCRIBE MEDICAL/LEGAL CONSIDERATIONS 4

04.0 DESCRIBE AND DEMONSTRATE EMS COMMUNICATIONS SYSTEMS 5

05.0 DEMONSTRATE RESCUE TECHNIQUES AND EXTRICATION 5

06.0 DESCRIBE MASS CASUALTY INCIDENTS (MCIs) 6

07.0 DESCRIBE AND MANAGE CAUSES OF STRESS 7

08.0 USE MEDICAL TERMS 7

09.0 DEMONSTRATE GENERAL PATIENT ASSESSMENT AND INITIAL MANAGEMENT 8

10.0 MANAGE AIRWAY AND VENTILATION 9

11.0 ASSESS AND MANAGE SHOCK 10

12.0 DEMONSTRATE KNOWLEDGE OF PHARMACOLOGY AND ADMINISTER MEDICATIONS 11

13.0 ASSESS AND MANAGE TRAUMA EMERGENCIES 12

14.0 ASSESS AND MANAGE BURN INJURIES 13

15.0 ASSESS AND MANAGE RESPIRATORY EMERGENCIES 13

16.0 ASSESS AND MANAGE CARDIOVASCULAR EMERGENCIES 14

17.0 ASSESS AND MANAGE ENDOCRINE EMERGENCIES 15

18.0 ASSESS AND MANAGE NEUROLOGICAL EMERGENCIES 16

19.0 ASSESS AND MANAGE DIGESTIVE, GENITOURINARY, AND REPRODUCTIVE EMERGENCIES 16

20.0 ASSESS AND MANAGE ANAPHYLAXIS EMERGENCIES 17

21.0 ASSESS AND MANAGE TOXICOLOGICAL, ALCOHOL, AND DRUG-ABUSE EMERGENCIES 17

22.0 ASSESS AND MANAGE INFECTIOUS DISEASES 18

23.0 ASSESS AND MANAGE ENVIRONMENTAL INJURIES 19

24.0 ASSESS AND MANAGE GERIATRIC EMERGENCIES 20

25.0 ASSESS AND MANAGE PEDIATRIC EMERGENCIES 21

26.0 ASSESS AND MANAGE THE GYNECOLOGIC PATIENT 21

27.0 ASSESS AND MANAGE THE OBSTETRIC PATIENT 22
28.0 ASSESS AND MANAGE THE NEONATE 23
29.0 ASSESS AND MANAGE BEHAVIORAL EMERGENCIES 24
30.0 DEMONSTRATE EMPLOYABILITY SKILLS 25
31.0 DEMONSTRATE KNOWLEDGE OF SEXUALLY TRANSMITTED DISEASES (STDs), INCLUDING AIDS 25

VERIFICATION 27

NOTES 28

APPENDIX* 29

***This MAP contains shortened standards. The full text of every standard in this program can be found in the Appendix.**

OVERVIEW

This Career MAP includes the competencies required for entry into the work force as a paramedic. Business and industry representatives have recommended that students in this field master these competencies in order to become employable. Local education agencies (LEAs) may adapt these competencies to meet their work-force needs.

Purposes of the MAP

The purposes of the MAP are to display the student performance standards (SPSs) required by the LEA and to document the level of achievement on SPSs that the student demonstrates.

How to Use the MAP

Administrator and Instructor. The administrator and instructor can use Career MAPs in curriculum planning, program updating and improvement, and teacher recruitment, selection, and updating. If the LEA changes or adds SPSs, the revised or additional SPSs should be included in the blank boxes that appear within each intended outcome or at the end of this MAP.

Instructor. The instructor can use Career MAPs to keep track of student progress on SPSs. By periodically reviewing the ratings on standards, the instructor can identify a student's strengths and weaknesses and on that basis identify the skills for which the student needs remedial instruction or advanced training. MAPs can also be useful in student counseling and evaluation.

Student. The student may use the MAP to show potential employers the performance standards he or she has mastered. In order to present a complete record, the student should encourage the instructor to rate his or her level of achievement on all the appropriate SPSs and to fill in the verification form in the back of this MAP.

Employer. The MAP shows an employer the SPSs mastered by the student (a prospective employee) and the proficiency level achieved on each one. This information can help the employer make decisions about hiring, job assignments, and job-training needs.

Rating Student Performance

Performance Competencies. Ratings on SPSs should be based upon business/industrial performance standards. The evaluator observes and evaluates student performance as he or she would in the role of the employer or supervisor.

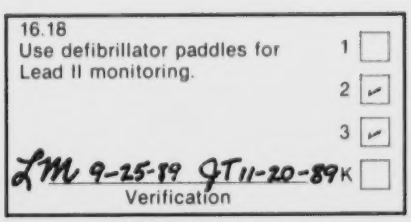
For each skill listed, the learner receives a rating of 1, 2, or 3. Each rating indicates a particular level of achievement:

1 = Learner demonstrates knowledge and understanding of this SPS, but is not yet able to apply that knowledge or understanding.

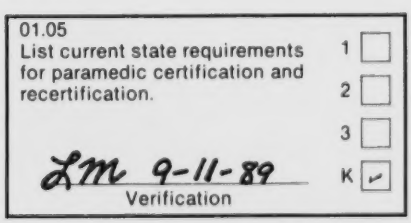
2 = Learner performs this SPS satisfactorily with only periodic supervision.

3 = Learner performs this SPS satisfactorily without supervision.

Whenever a performance standard is demonstrated, the instructor checks the appropriate rating box (1, 2, or 3) and initials and dates the verification line. If the student later demonstrates a higher level of achievement on a performance competency, the instructor checks the higher level and then enters his or her initials and the new date on the verification line, as shown in the following example:



Knowledge Competencies. For each SPS that is a knowledge competency only, with no manipulative skill involved, only one level of achievement is possible. If the student masters the competency, he or she receives a check in the bottom box ("K"), as shown below:



NOTE: An SPS without a checked rating indicates that the learner has not mastered the standard from lack of ability, time, opportunity, or need (the student's area of specialization may not have required it).

01.0 DEMONSTRATE KNOWLEDGE OF THE PARAMEDIC PROFESSION.

01.01 Define the role and responsibilities of the paramedic. 1 2 3 K Verification	01.02 Describe and contrast the differences between the various levels of training, from emergency medical technician (EMT) to paramedic. 1 2 3 K Verification	01.03 Describe ethics, professionalism, and health-care professional. 1 2 3 K Verification
01.04 Identify whether a particular activity is ethical/unethical, legal/illegal, and professional/ unprofessional in specific patient-care situations. 1 2 3 K Verification	01.05 List current state requirements for paramedic certification and recertification. 1 2 3 K Verification	01.06 Define continuing education, certification, licensure, and registration. 1 2 3 K Verification
01.07 Discuss Chapter 401, Florida Statutes, and Chapter 10D-66, Florida Administrative Code. 1 2 3 K Verification	01.08 State the major purposes of a national association, a national registry, and professional journals. 1 2 3 K Verification	01.09 State the benefits of paramedics teaching in their community. 1 2 3 K Verification
1 2 3 K Verification	1 2 3 K Verification	1 2 3 K Verification

02.0 DESCRIBE EMERGENCY MEDICAL SERVICE (EMS) SYSTEMS.

02.01 Define and describe medical control and physician responsibility. 1 2 3 K Verification	02.02 Discuss prehospital stabilization of patients. 1 2 3 K Verification	02.03 Discuss the general differences between management of trauma and of medical patients. 1 2 3 K Verification
02.04 Define and discuss protocols and their development. 1 2 3 K Verification	02.05 Describe the relationship between prehospital care and total patient care, including the emergency department and hospital specialty departments. 1 2 3 K Verification	02.06 Describe the continuum of patient care and the responsibilities of the paramedic within the transfer of patient responsibility. 1 2 3 K Verification

02.07
Discuss the development, implementation, and control of an EMS system.

1 ☐ 2 ☐ 3 ☐ K ☐

Verification

02.08
Discuss response of the EMS system, including . . ., and patient responsibility.*

*See Appendix.

1 ☐ 2 ☐ 3 ☐ K ☐

Verification

02.09
Discuss promulgation of national standards such as . . . and involvement of groups such as . . . .*

*See Appendix.

1 ☐ 2 ☐ 3 ☐ K ☐

Verification

02.10
Discuss the various paramedic-physician relationships.

1 ☐ 2 ☐ 3 ☐ K ☐

Verification

02.11
Describe retrospective evaluation of patient care, including run report review, continuing education, skill practice, and skill deterioration.

1 ☐ 2 ☐ 3 ☐ K ☐

Verification

02.12
Discuss the paramedic's initial responsibilities when arriving on the scene.

1 ☐ 2 ☐ 3 ☐ K ☐

Verification

1 ☐ 2 ☐ 3 ☐ K ☐

Verification

1 ☐ 2 ☐ 3 ☐ K ☐

Verification

1 ☐ 2 ☐ 3 ☐ K ☐

Verification

03.0 DESCRIBE MEDICAL /LEGAL CONSIDERATIONS.

03.01
Discuss the scope and significance of current national and Florida laws and administrative rules relating to the paramedic.

1 ☐ 2 ☐ 3 ☐ K ☐

Verification

03.02
Discuss medical/legal concepts relating to the paramedic.

1 ☐ 2 ☐ 3 ☐ K ☐

Verification

03.03
Discuss the need for accurate medical documentation and record keeping.

1 ☐ 2 ☐ 3 ☐ K ☐

Verification

03.04
Discuss the extent to which force and restraint may be used to protect the patient, the paramedic, and third parties.

1 ☐ 2 ☐ 3 ☐ K ☐

Verification

03.05
Identify those circumstances that require the paramedic to report incidents to law enforcement and/or other appropriate authorities.

1 ☐ 2 ☐ 3 ☐ K ☐

Verification

1 ☐ 2 ☐ 3 ☐ K ☐

Verification

1 ☐ 2 ☐ 3 ☐ K ☐

Verification

1 ☐ 2 ☐ 3 ☐ K ☐

Verification

1 ☐ 2 ☐ 3 ☐ K ☐

Verification

1 ☐ 2 ☐ 3 ☐ K ☐

Verification

PARAMEDIC

04.0 DESCRIBE AND DEMONSTRATE EMS COMMUNICATIONS SYSTEMS.

04.01 Describe the phases of communication necessary to complete a typical EMS event. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	04.02 Define and describe essential communication terms and equipment. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	04.03 Describe various EMS communication systems and the advantages and disadvantages of each. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
04.04 Describe factors affecting interference, range, and clarity of base, vehicle, and portable radio communications. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	04.05 Describe the functions and responsibilities of the Federal Communications Commission (FCC). 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	04.06 Describe the functions and responsibilities of the EMS dispatcher. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
04.07 Describe purposes and methods of verbal communication of patient information to the hospital and to the physician. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	04.08 Organize a patient presentation in the proper order for radio transmission to the physician. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	04.09 Describe the importance of written medical protocols and the written EMS run report. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
04.10 Demonstrate the proper use of portable and mobile transmitters/receivers in a real or simulated patient situation. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	04.11 Discuss uses of biotelemetry equipment. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	04.12 Complete a written EMS report based on a real or simulated patient situation. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification

05.0 DEMONSTRATE RESCUE TECHNIQUES AND EXTRICATION.*

*See Appendix.

05.01 Identify possible hazards when given a description of a scene, and describe the procedures for handling the hazards. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	05.02 Identify and/or describe the equipment used and the techniques necessary for . . . patients trapped within a vehicle or other confinement. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	05.03 Describe the integration of patient care into the process of patient disentanglement and rescue. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification

PARAMEDIC

05.04 Identify proper response in the presence of hazardous materials and name proper hazardous-materials authorities that should be notified. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	05.05 Manage scene and safe patient access. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	05.06 Discuss removal and transport of the patient from the scene. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
05.07 Demonstrate the procedures and operation of equipment used for . . . patients trapped or confined in a vehicle or . . . . 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	05.08 Demonstrate techniques for lifting and handling patients with and without spine injuries and/or . . . equipment found on a rescue vehicle. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	05.09 Demonstrate techniques for lifting and moving patients, utilizing typical patient handling/carrying devices. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification

06.0 DESCRIBE MASS CASUALTY INCIDENTS (MCIs).

06.01 Define MCI and when it should be declared. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	06.02 Describe the preplanning phase and response planning. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	06.03 Discuss MCI communications. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
06.04 Describe the components of special resources. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	06.05 Describe the function of scene command, scene triage, and transferring command. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	06.06 Describe section and staging management and a system for patient identification. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
06.07 Discuss on-scene medical control. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification
1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification

07.0 DESCRIBE AND MANAGE CAUSES OF STRESS.

07.01 Define stress and discuss its causes and phases. 1 2 3 K Verification	07.02 Describe common physiologic responses to stress, its effects, and typical defense mechanisms. 1 2 3 K Verification	07.03 Describe factors that determine whether anxiety is a positive or negative response. 1 2 3 K Verification
07.04 Describe behavior that is a manifestation of stress in patients, patients' families, and the paramedic. 1 2 3 K Verification	07.05 Identify and describe common causes of job-related stress and various techniques of paramedic stress management. 1 2 3 K Verification	07.06 Describe the stages of the grief process and common needs of the patient, the family, and the paramedic in dealing with death and dying. 1 2 3 K Verification
07.07 Describe common management techniques used by the paramedic when a patient is dead or dying. 1 2 3 K Verification	07.08 Discuss areas of controversy in prehospital care involving death and dying. 1 2 3 K Verification	1 2 3 K Verification
1 2 3 K Verification	1 2 3 K Verification	1 2 3 K Verification

08.0 USE MEDICAL TERMS.

08.01 Define and use relevant medical terms. 1 2 3 K Verification	08.02 Identify and use common anatomical medical terms. 1 2 3 K Verification	08.03 Identify and use medical abbreviations. 1 2 3 K Verification
08.04 Identify and define common prefixes, suffixes, and word roots. 1 2 3 K Verification	08.05 Use a medical dictionary. 1 2 3 K Verification	1 2 3 K Verification

PARAMEDIC

1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification

09.0 DEMONSTRATE GENERAL PATIENT ASSESSMENT AND INITIAL MANAGEMENT.

09.01 Establish priorities of care based on threat to life, and describe the treatment modalities for the management of these conditions. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	09.02 Describe the primary and secondary surveys. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	09.03 Describe the anatomy, physiology, and pathophysiology of the airway and lungs and their anatomical structures. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
09.04 Describe the use of adjuncts in airway management. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	09.05 Describe advanced methods of airway management. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	09.06 Explain the significance of protection of the cervical spine in airway management. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
09.07 Explain pulmonary ventilation and gas exchange across the alveolar-capillary membrane. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	09.08 Describe the pathophysiology of open and closed pulmonary injuries. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	09.09 Discuss the techniques for evaluating effectiveness of ventilation. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
09.10 Describe the anatomy and physiology of the heart and the cardiovascular system. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	09.11 Describe the pathophysiology of cardiac arrest. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	09.12 Describe the mechanisms for evaluating the effectiveness of perfusion. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
09.13 Describe hemorrhage control and its benefits and complications. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	09.14 Assess neurological status. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	09.15 Discuss the pathophysiology of shock. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
09.16 Define the trauma score and its usefulness. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	09.17 Demonstrate obtaining a relevant patient medical history. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	09.18 Describe how a patient is packaged and stabilized for transportation to the hospital. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification

PARAMEDIC

09.19
Discuss procedures for hospital selection, the transportation phase, and patient monitoring en route to the hospital.
1 2 3 K
Verification

09.20
Perform a rapid assessment.
1 2 3 K
Verification

09.21
Perform a secondary survey.
1 2 3 K
Verification

09.22
Demonstrate cardiopulmonary resuscitation (CPR).
1 2 3 K
Verification

1 2 3 K
Verification

1 2 3 K
Verification

1 2 3 K
Verification

1 2 3 K
Verification

1 2 3 K
Verification

10.0 MANAGE AIRWAY AND VENTILATION.

10.01
Describe and discuss techniques of advanced airway management, to include intubation and surgical procedures.
1 2 3 K
Verification

10.02
Demonstrate methods of airway management on adult, child, and intact manikins both manually and with adjunctive equipment.
1 2 3 K
Verification

10.03
Demonstrate methods for assessing continued adequacy of airway management and ventilation when using advanced airway devices.
1 2 3 K
Verification

10.04
Demonstrate use of portable and fixed suction devices for oropharyngeal and tracheal suctioning.
1 2 3 K
Verification

1 2 3 K
Verification

1 2 3 K
Verification

1 2 3 K
Verification

1 2 3 K
Verification

1 2 3 K
Verification

PARAMEDIC

11.0 ASSESS AND MANAGE SHOCK.

11.01 Identify and describe the causes, pathophysiology signs, symptoms, clinical manifestations, and management of shock. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	11.02 Describe fluids, fluid transport, and fluid and electrolyte imbalances. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	11.03 Discuss resuscitation of the shock patient. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
11.04 Discuss the hemodynamics of the cardiovascular system. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	11.05 Discuss differences in intravenous (IV) fluid composition and their implications in fluid administration. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	11.06 Describe baroreceptors and their effect on blood pressure and perfusion. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
11.07 Describe compensated and uncompensated shock. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	11.08 Discuss evaluation of the patient's perfusion status. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	11.09 Define and discuss acid-base balance. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
11.10 Describe indications and contraindications of the pneumatic antishock garment. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	11.11 Discuss the methods of fluid replacement and the advantages and disadvantages of each. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	11.12 Demonstrate, in order of priority, the steps in shock resuscitation. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
11.13 Demonstrate the use of the pneumatic antishock garment. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	11.14 Demonstrate proper technique of setting up IV fluids for administration. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	11.15 Demonstrate proper technique of peripheral and external jugular venous cannulation on the adult, child, and infant patient. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
11.16 Demonstrate proper techniques for troubleshooting an IV infusion. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	11.17 Calculate fluid administration rates for IV fluids, utilizing a variety of administration sets. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification
1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification

PARAMEDIC

12.0 DEMONSTRATE KNOWLEDGE OF PHARMACOLOGY AND ADMINISTER MEDICATIONS.*

*See Appendix.

12.01 Discuss the various origins and forms of drugs. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	12.02 Discuss the various names of a drug (i.e., generic, trade, official, chemical). 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	12.03 Identify those agencies responsible for regulating drugs and the rationale for regulation. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
12.04 Demonstrate use of the *Physicians Desk Reference*. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	12.05 Identify local and systemic effects of drugs. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	12.06 List and evaluate effects of various factors on the action of drugs. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
12.07 Discuss the methods of drug absorption. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	12.08 Define and use relevant pharmacology terms. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	12.09 Describe and discuss the apothecary and metric systems and convert between and within the systems. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
12.10 Describe the various types of drugs and routes of administration. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	12.11 Calculate fractional drug dosages. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	12.12 State the advantages and disadvantages of subcutaneous, intramuscular, IV, and transtracheal injections. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
12.13 Demonstrate the proper procedures for . . . medication administration. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	12.14 Demonstrate the proper procedure for withdrawing medication from a glass vial and a glass ampule. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification
1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification
1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification

PARAMEDIC

13.0 ASSESS AND MANAGE TRAUMA EMERGENCIES.*

*See Appendix.

13.01 Describe the general care and transportation of the trauma patient. 1 2 3 K Verification	13.02 Describe the priorities of trauma care and triage with multiple patients. 1 2 3 K Verification	13.03 Describe the anatomy, physiology, pathophysiology assessment, and management of trauma to all regions of the human body. 1 2 3 K Verification
13.04 Describe and demonstrate methods of hemorrhage control. 1 2 3 K Verification	13.05 Describe neurological examination, assessment, pathophysiology, and management. 1 2 3 K Verification	13.06 Demonstrate rapid on-scene management of the trauma patient. 1 2 3 K Verification
13.07 Describe the components of a complete prehospital history and the significance of each. 1 2 3 K Verification	13.08 Describe various types of splints that are used for immobilization of fractures and dislocations . . . . 1 2 3 K Verification	13.09 Describe the short and long backboard, the various state-of-the-art substitutes available, and their specific uses. 1 2 3 K Verification
13.10 Describe various systems designed for scoring the severity of injuries of the trauma patient. 1 2 3 K Verification	13.11 Identify and describe the use of a trauma score in quantifying patient condition. 1 2 3 K Verification	13.12 Demonstrate advanced methods of airway management and ventilation in the trauma patient. 1 2 3 K Verification
13.13 Demonstrate decompression of a tension pneumothorax. 1 2 3 K Verification	13.14 Demonstrate application of the pneumatic antishock garment. 1 2 3 K Verification	13.15 Describe and demonstrate physical examination of the trauma patient. 1 2 3 K Verification
13.16 Demonstrate a neurological examination as performed on the trauma patient. 1 2 3 K Verification	13.17 Demonstrate immobilization of the cervical spine. 1 2 3 K Verification	13.18 Demonstrate splinting techniques. 1 2 3 K Verification
1 2 3 K Verification	1 2 3 K Verification	1 2 3 K Verification

PARAMEDIC

14.0 ASSESS AND MANAGE BURN INJURIES.

14.01 Describe the anatomy, physiology, pathophysiology, and assessment of the integumentary system. 1 2 3 K Verification	14.02 Discuss the movement of body fluids between plasma, interstitial compartments, and intracellular compartments. 1 2 3 K Verification	14.03 Describe the assessment and management of the burn victim. 1 2 3 K Verification
14.04 Describe the pathophysiology and treatment of burn shock. 1 2 3 K Verification	14.05 Describe and discuss the major causes, classifications, and categories of burn. 1 2 3 K Verification	14.06 Describe and discuss the method of calculating percentages of body surface area burned and various formulas for calculating fluid resuscitation. 1 2 3 K Verification
14.07 Describe the assessment and management of inhalation injury. 1 2 3 K Verification	14.08 Demonstrate the management of the burn victim with and without associated injuries. 1 2 3 K Verification	1 2 3 K Verification
1 2 3 K Verification	1 2 3 K Verification	1 2 3 K Verification

15.0 ASSESS AND MANAGE RESPIRATORY EMERGENCIES.*

*See Appendix.

15.01 Describe the anatomy and physiology of the respiratory system and define appropriate medical terms. 1 2 3 K Verification	15.02 Identify the normal partial pressures of oxygen and carbon dioxide in the alveoli and arterial and venous blood and identify the factors that affect those levels. 1 2 3 K Verification	15.03 Describe the normal and COPD respiratory drives. 1 2 3 K Verification
15.04 Identify the pharmacology, actions, indications, precautions, dosages, contraindications, and side effects of . . . . 1 2 3 K Verification	15.05 Discuss the signs, symptoms, and pathophysiology of conditions affecting the respiratory system. 1 2 3 K Verification	15.06 Demonstrate inspection, auscultation, and palpation of the thorax. 1 2 3 K Verification

PARAMEDIC

15.07
Identify normal and abnormal lung sounds.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

15.08
Obtain a history of and assess patients with respiratory complaints.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

15.09
Describe the management of patients with respiratory problems.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

1 ☐ 2 ☐ 3 ☐ K ☐
Verification

1 ☐ 2 ☐ 3 ☐ K ☐
Verification

1 ☐ 2 ☐ 3 ☐ K ☐
Verification

16.0 ASSESS AND MANAGE CARDIOVASCULAR EMERGENCIES.*

*See Appendix.

16.01
Describe the anatomy, physiology, and pathophysiology relevant to cardiovascular disease and emergencies.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

16.02
Identify the . . . of common emergency cardiovascular drugs (AHA/ACLS).
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

16.03
Identify complications of intracardiac injections.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

16.04
Describe innervation of the heart, sympathetic and parasympathetic stimulation, blockade, and effects on the heart rate.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

16.05
Discuss myocardial electrical physiology.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

16.06
Describe signs, symptoms, and common chief complaints of patients with cardiac conditions.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

16.07
Identify and describe the historical information, specific observations, and physical findings to be evaluated in the cardiac patient.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

16.08
Identify actions, uses, and side effects of common prescription drugs relative to cardiac problems.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

16.09
Discuss the etiology of cardiac arrest in adults and pediatric patients.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

16.10
Discuss concepts of electrocardiogram (ECG) monitoring, types and causes of artifacts, and rhythm analysis format.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

16.11
Identify the wave forms, intervals, and normal values relative to an ECG.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

16.12
Describe a 12-lead ECG and compare it to continuous monitoring.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

16.13
Describe the etiology, clinical significance, and ECG characteristics of cardiac dysrhythmias.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

16.14
Describe the indications for use of . . . , and discuss energy recommendations for adult and pediatric patients.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

16.15
Identify wave forms, artifacts, and dysrhythmias on Lead II or MCL1 rhythm strip and oscilloscope.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

16.16
Obtain history, assess, and manage dysrhythmias or cardiac condition.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

16.17
Demonstrate application of ECG electrodes and obtain a sample Lead II or MCL1 rhythm strip.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

16.18
Use defibrillator paddles for Lead II monitoring.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

16.19
Troubleshoot a poor ECG rhythm.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

16.20
Perform a precordial thump, vagatonic maneuvers, synchronized cardioversion, defibrillation, and external cardiac pacing.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

16.21
Use a mechanical CPR device.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

1 ☐ 2 ☐ 3 ☐ K ☐
Verification

1 ☐ 2 ☐ 3 ☐ K ☐
Verification

1 ☐ 2 ☐ 3 ☐ K ☐
Verification

17.0 ASSESS AND MANAGE ENDOCRINE EMERGENCIES.

17.01
Identify and describe the anatomy, physiology, and pathophysiology of the endocrine system.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

17.02
Describe the assessment and management of endocrine emergencies.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

17.03
Identify and discuss the significance of the historical information, observations, and physical findings in the patient with endocrine disorders.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

17.04
Identify common prescription drugs that a patient with endocrine problems might take and the implications of each.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

17.05
Identify the pharmacology, actions, indications, precautions, methods of administration, dosages, contraindications, and side effects of relevant drugs.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

17.06
Obtain a history and assess and manage patients with endocrine problems.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

17.07
Administer relevant drugs.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

1 ☐ 2 ☐ 3 ☐ K ☐
Verification

1 ☐ 2 ☐ 3 ☐ K ☐
Verification

1 ☐ 2 ☐ 3 ☐ K ☐
Verification

1 ☐ 2 ☐ 3 ☐ K ☐
Verification

1 ☐ 2 ☐ 3 ☐ K ☐
Verification

18.0 ASSESS AND MANAGE NEUROLOGICAL EMERGENCIES.*

*See Appendix

18.01 Identify and describe the anatomy, physiology, and pathophysiology of the neurological system. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	18.02 Describe the assessment and management of neurological disorders. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	18.03 Identify the actions, uses, and side effects of common prescription drugs relative to neurological problems. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
18.04 Identify common prescription drugs that a patient with neurological problems might take and the implications of each. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	18.05 Identify the pharmacology, . . . and side effects of relevant drugs. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	18.06 Describe and use the Glasgow Coma Scale. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
18.07 Describe and differentiate various types of seizures and their phases. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	18.08 Obtain a history of and assess patients with neurological disorders. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	18.09 Manage patients with neurological emergencies. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification

19.0 ASSESS AND MANAGE DIGESTIVE, GENITOURINARY, AND REPRODUCTIVE EMERGENCIES.*

*See Appendix.

19.01 Describe the anatomy, physiology, and pathophysiology of the digestive, genitourinary, and reproductive systems. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	19.02 Identify and describe the significance of the historical information, observations, and physical findings in the patient with . . . . 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	19.03 Describe the assessment and treatment of digestive, genito-urinary, and reproductive system disorders. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
19.04 Identify common prescription drugs that a patient with . . . might take and the implications of each. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	19.05 Discuss the basic principles, types, and complications of dialysis. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	19.06 Discuss the assessment and management of the dialysis patient, to include vascular access. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification

19.07
Obtain a history of and assess patients with digestive, genitourinary, and/or reproductive problems.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

19.08
Manage patients with digestive, genitourinary, and/or reproductive emergencies.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

1 ☐ 2 ☐ 3 ☐ K ☐
Verification

1 ☐ 2 ☐ 3 ☐ K ☐
Verification

1 ☐ 2 ☐ 3 ☐ K ☐
Verification

1 ☐ 2 ☐ 3 ☐ K ☐
Verification

20.0 ASSESS AND MANAGE ANAPHYLAXIS EMERGENCIES.*

*See Appendix.

20.01
Describe the anatomy, physiology, pathophysiology, causes, signs and symptoms, assessment, and management of anaphylaxis.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

20.02
Identify and discuss the significance of historical information, observations, and physical findings in the patient with a potential anaphylaxis.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

20.03
Identify the pharmacology, actions, indications, precautions, . . . of relevant drugs for the adult and pediatric patient.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

20.04
Obtain a history of and assess patients with potential anaphylaxis.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

20.05
Manage patients with anaphylactic emergencies.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

20.06
Administer relevant drugs to the adult and pediatric patient.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

1 ☐ 2 ☐ 3 ☐ K ☐
Verification

1 ☐ 2 ☐ 3 ☐ K ☐
Verification

1 ☐ 2 ☐ 3 ☐ K ☐
Verification

21.0 ASSESS AND MANAGE TOXICOLOGICAL, ALCOHOL, AND DRUG-ABUSE EMERGENCIES.*

*See Appendix.

21.01
Discuss toxicological emergencies.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

21.02
Identify and discuss the routes of entry of toxic substances into the body.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

21.03
Discuss the role of poison control centers in the EMS system and in the management of patients with toxicological emergencies.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

21.04 Define abuse terms, identify commonly abused drugs, and describe their effects. 1 2 3 K Verification	21.05 Describe the . . . of patients with toxicological emergencies, animal or insect bites, stings, drug overdose, and alcoholism. 1 2 3 K Verification	21.06 Discuss the incidence of alcoholism, drug abuse, and substance abuse in the United States. 1 2 3 K Verification
21.07 Obtain a history of, assess, and manage patients with toxicological emergencies, animal or insect bites, stings, drug overdose, and alcoholism. 1 2 3 K Verification	21.08 Administer relevant drugs. 1 2 3 K Verification	21.09 Apply a constricting band. 1 2 3 K Verification
1 2 3 K Verification	1 2 3 K Verification	1 2 3 K Verification

22.0 ASSESS AND MANAGE INFECTIOUS DISEASES.*

*See Appendix.

22.01 Define terms and conditions relative to infectious diseases. 1 2 3 K Verification	22.02 Describe the . . . , and management of typical infectious and communicable diseases and parasites. 1 2 3 K Verification	22.03 Identify and discuss the significance of . . . in the patient with infectious/communicable disease or parasites. 1 2 3 K Verification
22.04 Practice universal precautions according to established Centers for Disease Control (CDC) guidelines. 1 2 3 K Verification	22.05 Discuss procedures for reporting and follow-up after exposure to a communicable disease, according to established standards. 1 2 3 K Verification	22.06 Describe methods used to disinfect equipment and vehicles involved with an infectious patient. 1 2 3 K Verification
22.07 Obtain a history of and assess patients with infectious/communicable disease or parasites. 1 2 3 K Verification	22.08 Manage patients with infectious/communicable disease or parasites. 1 2 3 K Verification	22.09 Identify at-risk behavior which promotes the spread of AIDS. 1 2 3 K Verification
22.10 Identify the public education necessary to combat the spread of sexually transmitted diseases. 1 2 3 K Verification	1 2 3 K Verification	1 2 3 K Verification

1 ☐ 2 ☐ 3 ☐ K ☐ _____ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ _____ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ _____ Verification

23.0 ASSESS AND MANAGE ENVIRONMENTAL INJURIES.*

*See Appendix.

23.01 Describe and discuss . . . , and heat dissipation and retention in pathologic circumstances. 1 ☐ 2 ☐ 3 ☐ K ☐ _____ Verification	23.02 Identify and discuss the significance of . . . in the patient with hypothermic or hyperthermic disorders. 1 ☐ 2 ☐ 3 ☐ K ☐ _____ Verification	23.03 Describe the anatomy, physiology, pathophysiology, causes, signs and symptoms, assessment, and management . . . . 1 ☐ 2 ☐ 3 ☐ K ☐ _____ Verification
23.04 Describe the anatomy, physiology, pathophysiology, signs and symptoms, assessment, and management of near-drowning. 1 ☐ 2 ☐ 3 ☐ K ☐ _____ Verification	23.05 Identify and discuss the significance of historical information, . . . in the patient with a near-drowning emergency. 1 ☐ 2 ☐ 3 ☐ K ☐ _____ Verification	23.06 State the factors affecting survivability and probability of successful resuscitation in near-drowning patients. 1 ☐ 2 ☐ 3 ☐ K ☐ _____ Verification
23.07 Identify the common types and sources of ionizing radiation. 1 ☐ 2 ☐ 3 ☐ K ☐ _____ Verification	23.08 Identify sources of normal background radiation. 1 ☐ 2 ☐ 3 ☐ K ☐ _____ Verification	23.09 Describe the anatomy, physiology, pathophysiology, signs and symptoms, assessment, and management of . . . . 1 ☐ 2 ☐ 3 ☐ K ☐ _____ Verification
23.10 Identify and discuss the significance of . . . in the patient with acute and/or chronic exposure to ionizing radiation. 1 ☐ 2 ☐ 3 ☐ K ☐ _____ Verification	23.11 Discuss the safety of allied health personnel and patients related to exposure to ionizing radiation. 1 ☐ 2 ☐ 3 ☐ K ☐ _____ Verification	23.12 Discuss procedures relating to radiological incidents for notification of appropriate health officials. 1 ☐ 2 ☐ 3 ☐ K ☐ _____ Verification
23.13 List the common medical problems associated with scuba or underwater diving accidents. 1 ☐ 2 ☐ 3 ☐ K ☐ _____ Verification	23.14 Describe the anatomy, . . . of decompression sickness, overpressure accidents, . . . and subcutaneous emphysema. 1 ☐ 2 ☐ 3 ☐ K ☐ _____ Verification	23.15 Identify and discuss . . . pneumomediastinum, air embolism, nitrogen narcosis, and subcutaneous emphysema, and the significance of each. 1 ☐ 2 ☐ 3 ☐ K ☐ _____ Verification
23.16 Obtain a history of and assess patients with hypothermic and hyperthermic problems. 1 ☐ 2 ☐ 3 ☐ K ☐ _____ Verification	23.17 Discuss management of patients with hypothermic or hyperthermic complaints. 1 ☐ 2 ☐ 3 ☐ K ☐ _____ Verification	23.18 Obtain a history of and assess patients with exposure to ionizing radiation. 1 ☐ 2 ☐ 3 ☐ K ☐ _____ Verification

23.19 Discuss management of patients with exposure to ionizing radiation. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	23.20 Obtain a history of and assess patients with near-drowning emergencies. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	23.21 Discuss management of patients with near-drowning emergencies. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
23.22 Obtain a history of and assess patients with scuba diving emergencies. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	23.23 Discuss management of patients with scuba diving emergencies. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification
1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification

24.0 ASSESS AND MANAGE GERIATRIC EMERGENCIES.*

*See Appendix.

24.01 Identify the physical, social, and psychological differences between youth and the elderly. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	24.02 Identify and discuss the significance of historical information, observations, and physical findings in the geriatric patient with . . . . 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	24.03 Identify and discuss illnesses/complaints that require special consideration in the elderly. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
24.04 Describe the anatomy, physiology, pathophysiology, assessment, and management of common geriatric illnesses. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	24.05 Obtain a history of and assess geriatric patients. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	24.06 Treat geriatric patients. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
24.07 Discuss geriatric abuse. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	24.08 Discuss the components and objectives of a gerontology program. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification
1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification

25.0 ASSESS AND MANAGE PEDIATRIC EMERGENCIES.*

*See Appendix.

25.01 Identify the general goals of management of the pediatric patient. 1 2 3 K Verification	25.02 Discuss specific historical information and its sources in evaluating the pediatric patient. 1 2 3 K Verification	25.03 Discuss by age groups the relevant aspects of normal growth and development, . . . common illnesses, and accidents. 1 2 3 K Verification
25.04 Describe sudden infant death syndrome, current theories, assessment and management, and the immediate needs of the family. 1 2 3 K Verification	25.05 Describe the characteristics of the child abuser and the abused child. 1 2 3 K Verification	25.06 Discuss the assessment and management of the potentially abused child, including . . . . 1 2 3 K Verification
25.07 Recognize and report child abuse. 1 2 3 K Verification	25.08 Describe the anatomy, physiology, pathophysiology, assessment, and management of common pediatric disorders. 1 2 3 K Verification	25.09 Identify the pediatric dosage for relevant drugs (AHA/ACLS). 1 2 3 K Verification
25.10 Discuss and demonstrate techniques for airway maintenance in the pediatric patient. 1 2 3 K Verification	25.11 Discuss and demonstrate techniques and sites for IV infusion in the pediatric patient. 1 2 3 K Verification	25.12 Obtain a history of and assess the pediatric patient. 1 2 3 K Verification
1 2 3 K Verification	1 2 3 K Verification	1 2 3 K Verification

26.0 ASSESS AND MANAGE THE GYNECOLOGIC PATIENT.

26.01 Describe the anatomy and physiology of the female reproductive system. 1 2 3 K Verification	26.02 Identify and discuss the significance of historical information, observations, and physical findings to be evaluated in the patient's gynecologic problems. 1 2 3 K Verification	26.03 Describe the pathophysiology and management of gynecologic disorders. 1 2 3 K Verification

26.04 Describe potential causes, assessment, and management of trauma to the external genitalia. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	26.05 Describe the assessment and management of a sexual-assault victim. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	26.06 Obtain a history of and assess and manage the patient with a gynecologic problem. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification

27.0 ASSESS AND MANAGE THE OBSTETRIC PATIENT.

27.01 Define obstetric terminology. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	27.02 Describe the process of fetal development and circulation. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	27.03 Identify and discuss the significance of historical information, observations, and physical findings in the obstetric patient. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
27.04 Identify and describe early signs and symptoms of pregnancy. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	27.05 Describe potential causes, assessment, and management of trauma to the pregnant mother and the fetus. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	27.06 Discuss the effects of pregnancy on preexisting medical conditions. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
27.07 Describe the anatomy, physiology, pathophysiology, causes, assessment, and management of obstetric emergencies. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	27.08 Describe Braxton-Hicks contractions. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	27.09 Discuss the progression of labor. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
27.10 Discuss factors that influence transport decisions for the patient in labor. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	27.11 Describe a normal cephalic delivery. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	27.12 Discuss the pathophysiology, assessment, and management of delivery complications. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
27.13 Identify the pharmacology, actions, indications, methods of administration, dosages, contraindications, and side effects of oxytocin. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	27.14 Obtain a history of and assess the obstetric patient. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	27.15 Treat obstetric patients, including assisting with childbirth. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification

PARAMEDIC

27.16
Administer oxytocin.

1 ☐
2 ☐
3 ☐
K ☐

Verification

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2 ☐
3 ☐
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Verification

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Verification

28.0 ASSESS AND MANAGE THE NEONATE.

28.01
Describe the anatomy, physiology, pathophysiology, assessment, and routine management of the neonate.

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2 ☐
3 ☐
K ☐

Verification

28.02
Describe the mechanisms, effects, and treatment of hypothermia in the neonate.

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2 ☐
3 ☐
K ☐

Verification

28.03
Define the parameters, numerical values utilized, and the procedure for Apgar scoring.

1 ☐
2 ☐
3 ☐
K ☐

Verification

28.04
Describe and demonstrate stimulation of and CPR for the distressed neonate.

1 ☐
2 ☐
3 ☐
K ☐

Verification

28.05
Identify observations and physical findings to be evaluated in the neonate.

1 ☐
2 ☐
3 ☐
K ☐

Verification

28.06
Identify the problems and equipment requirements for transportation of the neonate.

1 ☐
2 ☐
3 ☐
K ☐

Verification

28.07
Obtain a history of, assess, and manage the neonate.

1 ☐
2 ☐
3 ☐
K ☐

Verification

28.08
Administer oxygen to the neonate.

1 ☐
2 ☐
3 ☐
K ☐

Verification

28.09
Suction the neonate, using DeLee Suction and a bulb syringe.

1 ☐
2 ☐
3 ☐
K ☐

Verification

28.10
Calculate Apgar score.

1 ☐
2 ☐
3 ☐
K ☐

Verification

1 ☐
2 ☐
3 ☐
K ☐

Verification

1 ☐
2 ☐
3 ☐
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PARAMEDIC

29.0 ASSESS AND MANAGE BEHAVIORAL EMERGENCIES.

29.01 Define behavioral emergency. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	29.02 Discuss factors that may alter the emotional status of the ill or injured. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	29.03 Discuss reasons for and methods of reassuring the patient experiencing an emotional crisis. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
29.04 Discuss verbal communication techniques useful in managing the emotionally disturbed patient. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	29.05 Discuss means to ensure the safety of the paramedic. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	29.06 Discuss circumstances concerning when bystanders and relatives should be removed from the scene. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
29.07 Discuss factors which increase the risk of suicide and behaviors that are indicators of an impending suicide attempt. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	29.08 Discuss the techniques that facilitate the systematic gathering and reporting of information about the disturbed patient. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	29.09 Discuss techniques that are useful in managing the effects of crisis situations on the paramedic. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
29.10 Discuss techniques that are useful in redirecting anxiety in relatives and bystanders. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	29.11 Discuss appropriate action of the paramedic when confronted with an uncontrollable, armed patient. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	29.12 Discuss those situations in which the EMT-paramedic may forcibly restrain or transport a patient. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
29.13 Discuss and demonstrate techniques for restraining the violent patient. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	29.14 Discuss and demonstrate techniques useful in protecting the paramedic when attacked by a violent patient. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification	29.15 Obtain a history of, assess, and manage patients with behavioral emergencies. 1 ☐ 2 ☐ 3 ☐ K ☐ Verification
1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification
1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification

30.0 DEMONSTRATE EMPLOYABILITY SKILLS.

30.01
Conduct a job search.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

30.02
Secure information about a job.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

30.03
Identify documents that may be required when applying for a job.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

30.04
Complete a job application.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

30.05
Demonstrate competence in job interview techniques.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

30.06
Identify or demonstrate appropriate responses to criticism from employer, supervisor, or other persons.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

30.07
Identify acceptable work habits.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

30.08
Demonstrate knowledge of how to make job changes appropriately.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

30.09
Demonstrate acceptable employee health habits.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

1 ☐ 2 ☐ 3 ☐ K ☐
Verification

1 ☐ 2 ☐ 3 ☐ K ☐
Verification

1 ☐ 2 ☐ 3 ☐ K ☐
Verification

31.0 DEMONSTRATE KNOWLEDGE OF SEXUALLY TRANSMITTED DISEASES (STDs), INCLUDING AIDS.

31.01
Distinguish between fact and fallacy about the transmission and treatment of STDs.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

31.02
Identify community resources and services available to the victims of STDs.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

31.03.
Identify at-risk behaviors which promote the spread of AIDS and the public education necessary to combat the spread of STDs.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

31.04.
Apply infection-control techniques designed to prevent the spread of STDs to the care of *all* patients, following CDC guidelines.
1 ☐ 2 ☐ 3 ☐ K ☐
Verification

1 ☐ 2 ☐ 3 ☐ K ☐
Verification

1 ☐ 2 ☐ 3 ☐ K ☐
Verification

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1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification
1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification
1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification
1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification
1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification
1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification
1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification
1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification	1 ☐ 2 ☐ 3 ☐ K ☐ Verification

PARAMEDIC

VERIFICATION

Each instructor who rates this student on competencies in this MAP should fill in one of the boxes below.

Initials	Signature
	Title
	School Name
	School Address

Initials	Signature
	Title
	School Name
	School Address

Initials	Signature
	Title
	School Name
	School Address

NOTES

This section of the MAP is provided for the instructor, employer, or student to list additional qualifying statements or other pertinent information. All comments should be initialed for verification.

APPENDIX

Below is a listing of all outcomes and student performance standards for Paramedic.

01.0
DEMONSTRATE KNOWLEDGE OF THE PARAMEDIC PROFESSION.

01.01
Define the role and responsibilities of the paramedic.

01.02
Describe and contrast the differences between the various levels of training, from emergency medical technician (EMT) to paramedic.

01.03
Describe ethics, professionalism, and health-care professional.

01.04
Identify whether a particular activity is ethical/unethical, legal/illegal, and professional/unprofessional in specific patient-care situations.

01.05
List current state requirements for paramedic certification and recertification.

01.06
Define continuing education, certification, licensure, and registration.

01.07
Discuss Chapter 401, Florida Statutes, and Chapter 10D-66, Florida Administrative Code.

01.08
State the major purposes of a national association, a national registry, and professional journals.

01.09
State the benefits of paramedics teaching in their community.

02.0
DESCRIBE EMERGENCY MEDICAL SERVICE (EMS) SYSTEMS.

02.01
Define and describe medical control and physician responsibility.

02.02
Discuss prehospital stabilization of patients.

02.03
Discuss the general differences between management of trauma and of medical patients.

02.04
Define and discuss protocols and their development.

02.05
Describe the relationship between prehospital care and total patient care, including the emergency department and hospital specialty departments.

02.06
Describe the continuum of patient care and the responsibilities of the paramedic within the transfer of patient responsibility.

02.07
Discuss the development, implementation, and control of an EMS system.

02.08
Discuss response of the EMS system, including system access, dispatcher responsibilities, patient evaluation, medical command, and patient responsibility.

02.09
Discuss promulgation of national standards such as KKK ambulance standards and involvement of groups such as ASTM, NCSEMSTC, American College of Surgeons, American Medical Association Joint Review Committee, and the U.S. Department of Transportation.

02.10
Discuss the various paramedic-physician relationships.

02.11
Describe retrospective evaluation of patient care, including run report review, continuing education, skill practice, and skill deterioration.

02.12
Discuss the paramedic's initial responsibilities when arriving on the scene.

03.0
DESCRIBE MEDICAL/LEGAL CONSIDERATIONS.

03.01
Discuss the scope and significance of current national and Florida laws and administrative rules relating to the paramedic.

03.02
Discuss medical/legal concepts relating to the paramedic.

03.03
Discuss the need for accurate medical documentation and record keeping.

03.04
Discuss the extent to which force and restraint may be used to protect the patient, the paramedic, and third parties.

03.05
Identify those circumstances that require the paramedic to report incidents to law enforcement and/or other appropriate authorities.

04.0
DESCRIBE AND DEMONSTRATE EMS COMMUNICATIONS SYSTEMS.

04.01
Describe the phases of communication necessary to complete a typical EMS event.

04.02
Define and describe essential communication terms and equipment.

04.03
Describe various EMS communication systems and the advantages and disadvantages of each.

04.04
Describe factors affecting interference, range, and clarity of base, vehicle, and portable radio communications.

04.05
Describe the functions and responsibilities of the Federal Communications Commission (FCC).

04.06
Describe the functions and responsibilities of the EMS dispatcher.

04.07
Describe purposes and methods of verbal communication of patient information to the hospital and to the physician.

04.08
Organize a patient presentation in the proper order for radio transmission to the physician.

04.09
Describe the importance of written medical protocols and the written EMS run report.

04.10
Demonstrate the proper use of portable and mobile transmitters/receivers in a real or simulated patient situation.

04.11
Discuss uses of biotelemetry equipment.

04.12
Complete a written EMS report based on a real or simulated patient situation.

05.0
DEMONSTRATE RESCUE TECHNIQUES AND EXTRICATION.

05.01
Identify possible hazards when given a description of a scene, and describe the procedures for handling the hazards.

05.02
Identify and/or describe the equipment used and the techniques necessary for gaining access to, packaging, extricating, and transporting patients trapped within a vehicle or other confinement.

05.03
Describe the integration of patient care into the process of patient disentanglement and rescue.

05.04
Identify proper response in the presence of hazardous materials and name proper hazardous-materials authorities that should be notified.

05.05
Manage scene and safe patient access.

05.06
Discuss removal and transport of the patient from the scene.

05.07
Demonstrate the procedures and operation of equipment used for gaining access to, packaging, extricating, and transporting patients trapped or confined in a vehicle or other type of entrapment.

05.08
Demonstrate techniques for lifting and handling patients with and without spine injuries and/or other special injury problems, utilizing the specialized equipment found on a rescue vehicle.

05.09
Demonstrate techniques for lifting and moving patients, utilizing typical patient handling/carrying devices.

06.0
DESCRIBE MASS CASUALTY INCIDENTS (MCIs).

06.01
Define MCI and when it should be declared.

06.02
Describe the preplanning phase and response planning.

06.03
Discuss MCI communications.

06.04
Describe the components of special resources.

06.05
Describe the function of scene command, scene triage, and transferring command.

06.06
Describe section and staging management and a system for patient identification.

06.07
Discuss on-scene medical control.

07.0
DESCRIBE AND MANAGE CAUSES OF STRESS.

07.01
Define stress and discuss its causes and phases.

07.02
Describe common physiologic responses to stress, its effects, and typical defense mechanisms.

07.03
Describe factors that determine whether anxiety is a positive or negative response.

07.04
Describe behavior that is a manifestation of stress in patients, patients' families, and the paramedic.

07.05
Identify and describe common causes of job-related stress and various techniques of paramedic stress management.

07.06
Describe the stages of the grief process and common needs of the patient, the family, and the paramedic in dealing with death and dying.

07.07
Describe common management techniques used by the paramedic when a patient is dead or dying.

07.08
Discuss areas of controversy in prehospital care involving death and dying.

08.0
USE MEDICAL TERMS.

08.01
Define and use relevant medical terms.

08.02
Identify and use common anatomical medical terms.

08.03
Identify and use medical abbreviations.

08.04
Identify and define common prefixes, suffixes, and word roots.

08.05
Use a medical dictionary.

09.0
DEMONSTRATE GENERAL PATIENT ASSESSMENT AND INITIAL MANAGEMENT.

09.01
Establish priorities of care based on threat to life, and describe the treatment modalities for the management of these conditions.

09.02
Describe the primary and secondary surveys.

09.03
Describe the anatomy, physiology, and pathophysiology of the airway and lungs and their anatomical structures.

09.04
Describe the use of adjuncts in airway management.

09.05
Describe advanced methods of airway management.

09.06
Explain the significance of protection of the cervical spine in airway management.

09.07
Explain pulmonary ventilation and gas exchange across the alveolar-capillary membrane.

09.08
Describe the pathophysiology of open and closed pulmonary injuries.

09.09
Discuss the techniques for evaluating effectiveness of ventilation.

09.10
Describe the anatomy and physiology of the heart and the cardiovascular system.

09.11
Describe the pathophysiology of cardiac arrest.

09.12
Describe the mechanisms for evaluating the effectiveness of perfusion.

09.13
Describe hemorrhage control and its benefits and complications.

09.14
Assess neurological status.

09.15
Discuss the pathophysiology of shock.

09.16
Define the trauma score and its usefulness.

09.17
Demonstrate obtaining a relevant patient medical history.

09.18
Describe how a patient is packaged and stabilized for transportation to the hospital.

09.19
Discuss procedures for hospital selection, the transportation phase, and patient monitoring en route to the hospital.

09.20
Perform a rapid assessment.

09.21
Perform a secondary survey.

09.22
Demonstrate cardiopulmonary resuscitation (CPR).

10.0
MANAGE AIRWAY AND VENTILATION.

10.01
Describe and discuss techniques of advanced airway management, to include intubation and surgical procedures.

10.02
Demonstrate methods of airway management on adult, child, and intact manikins both manually and with adjunctive equipment.

10.03
Demonstrate methods for assessing continued adequacy of airway management and ventilation when using advanced airway devices.

10.04
Demonstrate use of portable and fixed suction devices for oropharyngeal and tracheal suctioning.

11.0
ASSESS AND MANAGE SHOCK.

11.01
Identify and describe the causes, pathophysiology signs, symptoms, clinical manifestations, and management of shock.

11.02
Describe fluids, fluid transport, and fluid and electrolyte imbalances.

11.03
Discuss resuscitation of the shock patient.

11.04
Discuss the hemodynamics of the cardiovascular system.

11.05
Discuss differences in intravenous (IV) fluid composition and their implications in fluid administration.

11.06
Describe baroreceptors and their effect on blood pressure and perfusion.

11.07
Describe compensated and uncompensated shock.

11.08
Discuss evaluation of the patient's perfusion status.

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11.09
Define and discuss acid-base balance.

11.10
Describe indications and contraindications of the pneumatic antishock garment.

11.11
Discuss the methods of fluid replacement and the advantages and disadvantages of each.

11.12
Demonstrate, in order of priority, the steps in shock resuscitation.

11.13
Demonstrate the use of the pneumatic antishock garment.

11.14
Demonstrate proper technique of setting up IV fluids for administration.

11.15
Demonstrate proper technique of peripheral and external jugular venous cannulation on the adult, child, and infant patient.

11.16
Demonstrate proper techniques for troubleshooting an IV infusion.

11.17
Calculate fluid administration rates for IV fluids, utilizing a variety of administration sets.

12.0
DEMONSTRATE KNOWLEDGE OF PHARMACOLOGY AND ADMINISTER MEDICATIONS.

12.01
Discuss the various origins and forms of drugs.

12.02
Discuss the various names of a drug (i.e., generic, trade, official, chemical).

12.03
Identify those agencies responsible for regulating drugs and the rationale for regulation.

12.04
Demonstrate use of the *Physicians Desk Reference*.

12.05
Identify local and systemic effects of drugs.

12.06
List and evaluate effects of various factors on the action of drugs.

12.07
Discuss the methods of drug absorption.

12.08
Define and use relevant pharmacology terms.

12.09
Describe and discuss the apothecary and metric systems and convert between and within the systems.

12.10
Describe the various types of drugs and routes of administration.

12.11
Calculate fractional drug dosages.

12.12
State the advantages and disadvantages of subcutaneous, intramuscular, IV, and transtracheal injections.

12.13
Demonstrate the proper procedures for intramuscular, subcutaneous, IV piggyback, IV bolus, and transtracheal medication administration.

12.14
Demonstrate the proper procedure for withdrawing medication from a glass vial and a glass ampule.

13.0
ASSESS AND MANAGE TRAUMA EMERGENCIES.

13.01
Describe the general care and transportation of the trauma patient.

13.02
Describe the priorities of trauma care and triage with multiple patients.

13.03
Describe the anatomy, physiology, pathophysiology assessment, and management of trauma to all regions of the human body.

13.04
Describe and demonstrate methods of hemorrhage control.

13.05
Describe neurological examination, assessment, pathophysiology, and management.

13.06
Demonstrate rapid on-scene management of the trauma patient.

13.07
Describe the components of a complete prehospital history and the significance of each.

13.08
Describe various types of splints that are used for immobilization of fractures and dislocations, their use, and the advantages and disadvantages of each.

13.09
Describe the short and long backboard, the various state-of-the-art substitutes available, and their specific uses.

13.10
Describe various systems designed for scoring the severity of injuries of the trauma patient.

13.11
Identify and describe the use of a trauma score in quantifying patient condition.

13.12
Demonstrate advanced methods of airway management and ventilation in the trauma patient.

13.13
Demonstrate decompression of a tension pneumothorax.

13.14
Demonstrate application of the pneumatic antishock garment.

13.15
Describe and demonstrate physical examination of the trauma patient.

13.16
Demonstrate a neurological examination as performed on the trauma patient.

13.17
Demonstrate immobilization of the cervical spine.

13.18
Demonstrate splinting techniques.

14.0
ASSESS AND MANAGE BURN INJURIES.

14.01
Describe the anatomy, physiology, pathophysiology, and assessment of the integumentary system.

14.02
Discuss the movement of body fluids between plasma, interstitial compartments, and intracellular compartments.

14.03
Describe the assessment and management of the burn victim.

14.04
Describe the pathophysiology and treatment of burn shock.

14.05
Describe and discuss the major causes, classifications, and categories of burn.

14.06
Describe and discuss the method of calculating percentages of body surface area burned and various formulas for calculating fluid resuscitation.

14.07
Describe the assessment and management of inhalation injury.

14.08
Demonstrate the management of the burn victim with and without associated injuries.

15.0
ASSESS AND MANAGE RESPIRATORY EMERGENCIES.

15.01
Describe the anatomy and physiology of the respiratory system and define appropriate medical terms.

15.02
Identify the normal partial pressures of oxygen and carbon dioxide in the alveoli and arterial and venous blood and identify the factors that affect those levels.

15.03
Describe the normal and COPD respiratory drives.

15.04
Identify the pharmacology, actions, indications, precautions, dosages, contraindications, and side effects of typical respiratory drugs for the adult and pediatric patient and demonstrate methods of administration.

15.05
Discuss the signs, symptoms, and pathophysiology of conditions affecting the respiratory system.

15.06
Demonstrate inspection, auscultation, and palpation of the thorax.

15.07
Identify normal and abnormal lung sounds.

15.08
Obtain a history of and assess patients with respiratory complaints.

15.09
Describe the management of patients with respiratory problems.

16.0
ASSESS AND MANAGE CARDIOVASCULAR EMERGENCIES.

16.01
Describe the anatomy, physiology, and pathophysiology relevant to cardiovascular disease and emergencies.

16.02
Identify the pharmacology, actions, indications, precautions, methods of administration, dosages, contraindications, and side effects of common emergency cardiovascular drugs (AHA/ACLS).

16.03
Identify complications of intracardiac injections.

16.04
Describe innervation of the heart, sympathetic and parasympathetic stimulation, blockade, and effects on the heart rate.

16.05
Discuss myocardial electrical physiology.

16.06
Describe signs, symptoms, and common chief complaints of patients with cardiac conditions.

16.07
Identify and describe the historical information, specific observations, and physical findings to be evaluated in the cardiac patient.

16.08
Identify actions, uses, and side effects of common prescription drugs relative to cardiac problems.

16.09
Discuss the etiology of cardiac arrest in adults and pediatric patients.

16.10
Discuss concepts of electrocardiogram (ECG) monitoring, types and causes of artifacts, and rhythm analysis format.

16.11
Identify the wave forms, intervals, and normal values relative to an ECG.

16.12
Describe a 12-lead ECG and compare it to continuous monitoring.

16.13
Describe the etiology, clinical significance, and ECG characteristics of cardiac dysrhythmias.

16.14
Describe the indications for use of a precordial thump, vagatonic maneuvers, synchronized cardioversion, and defibrillation, and discuss energy recommendations for adult and pediatric patients.

16.15
Identify wave forms, artifacts, and dysrhythmias on Lead II or MCL1 rhythm strip and oscilloscope.

16.16
Obtain history, assess, and manage dysrhythmias or cardiac condition.

16.17
Demonstrate application of ECG electrodes and obtain a sample Lead II or MCL1 rhythm strip.

16.18
Use defibrillator paddles for Lead II monitoring.

16.19
Troubleshoot a poor ECG rhythm.

16.20
Perform a precordial thump, vagatonic maneuvers, synchronized cardioversion, defibrillation, and external cardiac pacing.

16.21
Use a mechanical CPR device.

17.0
ASSESS AND MANAGE ENDOCRINE EMERGENCIES.

17.01
Identify and describe the anatomy, physiology, and pathophysiology of the endocrine system.

17.02
Describe the assessment and management of endocrine emergencies.

17.03
Identify and discuss the significance of the historical information, observations, and physical findings in the patient with endocrine disorders.

17.04
Identify common prescription drugs that a patient with endocrine problems might take and the implications of each.

17.05
Identify the pharmacology, actions, indications, precautions, methods of administration, dosages, contraindications, and side effects of relevant drugs.

17.06
Obtain a history and assess and manage patients with endocrine problems.

17.07
Administer relevant drugs.

18.0
ASSESS AND MANAGE NEUROLOGICAL EMERGENCIES.

18.01
Identify and describe the anatomy, physiology, and pathophysiology of the neurological system.

18.02
Describe the assessment and management of neurological disorders.

18.03
Identify the actions, uses, and side effects of common prescription drugs relative to neurological problems.

18.04
Identify common prescription drugs that a patient with neurological problems might take and the implications of each.

18.05
Identify the pharmacology, actions, indications, precautions, methods of administration, dosages, contraindications, and side effects of relevant drugs.

18.06
Describe and use the Glasgow Coma Scale.

18.07
Describe and differentiate various types of seizures and their phases.

18.08
Obtain a history of and assess patients with neurological disorders.

18.09
Manage patients with neurological emergencies.

19.0
ASSESS AND MANAGE DIGESTIVE, GENITOURINARY, AND REPRODUCTIVE EMERGENCIES.

19.01
Describe the anatomy, physiology, and pathophysiology of the digestive, genitourinary, and reproductive systems.

19.02
Identify and describe the significance of the historical information, observations, and physical findings in the patient with digestive, genitourinary, and/or reproductive disorders.

19.03
Describe the assessment and treatment of digestive, genitourinary, and reproductive system disorders.

19.04
Identify common prescription drugs that a patient with digestive, genitourinary, and/or reproductive problems might take and the implications of each.

19.05
Discuss the basic principles, types, and complications of dialysis.

19.06
Discuss the assessment and management of the dialysis patient, to include vascular access.

19.07
Obtain a history of and assess patients with digestive, genitourinary, and/or reproductive problems.

19.08
Manage patients with digestive, genitourinary, and/or reproductive emergencies.

20.0
ASSESS AND MANAGE ANAPHYLAXIS EMERGENCIES.

20.01
Describe the anatomy, physiology, pathophysiology, causes, signs and symptoms, assessment, and management of anaphylaxis.

20.02
Identify and discuss the significance of historical information, observations, and physical findings in the patient with a potential anaphylaxis.

20.03
Identify the pharmacology, actions, indications, precautions, methods of administration, dosages, contraindications, and side effects of relevant drugs for the adult and pediatric patient.

20.04
Obtain a history of and assess patients with potential anaphylaxis.

20.05
Manage patients with anaphylactic emergencies.

20.06
Administer relevant drugs to the adult and pediatric patient.

21.0
ASSESS AND MANAGE TOXICOLOGICAL, ALCOHOL, AND DRUG-ABUSE EMERGENCIES.

21.01
Discuss toxicological emergencies.

21.02
Identify and discuss the routes of entry of toxic substances into the body.

21.03
Discuss the role of poison control centers in the EMS system and in the management of patients with toxicological emergencies.

21.04
Define abuse terms, identify commonly abused drugs, and describe their effects.

21.05
Describe the anatomy, physiology, pathophysiology assessment, and management of patients with toxicological emergencies, animal or insect bites, stings, drug overdose, and alcoholism.

21.06
Discuss the incidence of alcoholism, drug abuse, and substance abuse in the United States.

21.07
Obtain a history of, assess, and manage patients with toxicological emergencies, animal or insect bites, stings, drug overdose, and alcoholism.

21.08
Administer relevant drugs.

21.09
Apply a constricting band.

22.0
ASSESS AND MANAGE INFECTIOUS DISEASES.

22.01
Define terms and conditions relative to infectious diseases.

22.02
Describe the anatomy, physiology, pathophysiology, causes, mode of transmission, incubation period, assessment, and management of typical infectious and communicable diseases and parasites.

22.03
Identify and discuss the significance of historical information, observations, and physical findings in the patient with infectious/communicable disease or parasites.

22.04
Practice universal precautions according to established Centers for Disease Control (CDC) guidelines.

22.05
Discuss procedures for reporting and follow-up after exposure to a communicable disease, according to established standards.

22.06
Describe methods used to disinfect equipment and vehicles involved with an infectious patient.

22.07
Obtain a history of and assess patients with infectious/communicable disease or parasites.

22.08
Manage patients with infectious/communicable disease or parasites.

22.09
Identify at-risk behavior which promotes the spread of AIDS.

22.10
Identify the public education necessary to combat the spread of sexually transmitted diseases.

23.0
ASSESS AND MANAGE ENVIRONMENTAL INJURIES.

23.01
Describe and discuss homeostasis, methods of body temperature regulation, the role and methods of thermoregulation, and heat dissipation and retention in pathologic circumstances.

23.02
Identify and discuss the significance of historical information, observations, and physical findings in the patient with hypothermic or hyperthermic disorders.

23.03
Describe the anatomy, physiology, pathophysiology, causes, signs and symptoms, assessment, and management of hypothermic or hyperthermic disorders.

23.04
Describe the anatomy, physiology, pathophysiology, signs and symptoms, assessment, and management of near-drowning.

23.05
Identify and discuss the significance of historical information, observations, and physical findings in the patient with a near-drowning emergency.

23.06
State the factors affecting survivability and probability of successful resuscitation in near-drowning patients.

23.07
Identify the common types and sources of ionizing radiation.

23.08
Identify sources of normal background radiation.

23.09
Describe the anatomy, physiology, pathophysiology, signs and symptoms, assessment, and management of acute and/or chronic exposure to ionizing radiation.

23.10
Identify and discuss the significance of historical information, observations, and physical findings in the patient with acute and/or chronic exposure to ionizing radiation.

23.11
Discuss the safety of allied health personnel and patients related to exposure to ionizing radiation.

23.12
Discuss procedures relating to radiological incidents for notification of appropriate health officials.

23.13
List the common medical problems associated with scuba or underwater diving accidents.

23.14
Describe the anatomy, physiology, pathophysiology, signs and symptoms, assessment, and management of decompression sickness, overpressure accidents, pneumomediastinum, air embolism, nitrogen narcosis, and subcutaneous emphysema.

23.15
Identify and discuss the significance of historical information, observations, and physical findings in patients with decompression sickness, overpressure accidents, pneumomediastinum, air embolism, nitrogen narcosis, and subcutaneous emphysema, and the significance of each.

23.16
Obtain a history of and assess patients with hypothermic and hyperthermic problems.

23.17
Discuss management of patients with hypothermic or hyperthermic complaints.

23.18
Obtain a history of and assess patients with exposure to ionizing radiation.

23.19
Discuss management of patients with exposure to ionizing radiation.

23.20
Obtain a history of and assess patients with near-drowning emergencies.

23.21
Discuss management of patients with near-drowning emergencies.

23.22
Obtain a history of and assess patients with scuba diving emergencies.

23.23
Discuss management of patients with scuba diving emergencies.

24.0
ASSESS AND MANAGE GERIATRIC EMERGENCIES.

24.01
Identify the physical, social, and psychological differences between youth and the elderly.

24.02
Identify and discuss the significance of historical information, observations, and physical findings in the geriatric patient with acute and/or chronic medical problems.

24.03
Identify and discuss illnesses/complaints that require special consideration in the elderly.

24.04
Describe the anatomy, physiology, pathophysiology, assessment, and management of common geriatric illnesses.

24.05
Obtain a history of and assess geriatric patients.

24.06
Treat geriatric patients.

24.07
Discuss geriatric abuse.

24.08
Discuss the components and objectives of a gerontology program.

25.0
ASSESS AND MANAGE PEDIATRIC EMERGENCIES.

25.01
Identify the general goals of management of the pediatric patient.

25.02
Discuss specific historical information and its sources in evaluating the pediatric patient.

25.03
Discuss by age groups the relevant aspects of normal growth and development, personality development, relationship to parents, history factors, common illnesses, and accidents.

25.04
Describe sudden infant death syndrome, current theories, assessment and management, and the immediate needs of the family.

25.05
Describe the characteristics of the child abuser and the abused child.

25.06
Discuss the assessment and management of the potentially abused child, including important historical information and management of the family in the child-abuse situation.

25.07
Recognize and report child abuse.

25.08
Describe the anatomy, physiology, pathophysiology, assessment, and management of common pediatric disorders.

25.09
Identify the pediatric dosage for relevant drugs (AHA/ACLS).

25.10
Discuss and demonstrate techniques for airway maintenance in the pediatric patient.

25.11
Discuss and demonstrate techniques and sites for IV infusion in the pediatric patient.

25.12
Obtain a history of and assess the pediatric patient.

26.0
ASSESS AND MANAGE THE GYNECOLOGIC PATIENT.

26.01
Describe the anatomy and physiology of the female reproductive system.

26.02
Identify and discuss the significance of historical information, observations, and physical findings to be evaluated in the patient's gynecologic problems.

26.03
Describe the pathophysiology and management of gynecologic disorders.

26.04
Describe potential causes, assessment, and management of trauma to the external genitalia.

26.05
Describe the assessment and management of a sexual-assault victim.

26.06
Obtain a history of and assess and manage the patient with a gynecologic problem.

27.0
ASSESS AND MANAGE THE OBSTETRIC PATIENT.

27.01
Define obstetric terminology.

27.02
Describe the process of fetal development and circulation.

27.03
Identify and discuss the significance of historical information, observations, and physical findings in the obstetric patient.

27.04
Identify and describe early signs and symptoms of pregnancy.

27.05
Describe potential causes, assessment, and management of trauma to the pregnant mother and the fetus.

27.06
Discuss the effects of pregnancy on preexisting medical conditions.

27.07
Describe the anatomy, physiology, pathophysiology, causes, assessment, and management of obstetric emergencies.

27.08
Describe Braxton-Hicks contractions.

27.09
Discuss the progression of labor.

27.10
Discuss factors that influence transport decisions for the patient in labor.

27.11
Describe a normal cephalic delivery.

27.12
Discuss the pathophysiology, assessment, and management of delivery complications.

27.13
Identify the pharmacology, actions, indications, methods of administration, dosages, contraindications, and side effects of oxytocin.

27.14
Obtain a history of and assess the obstetric patient.

27.15
Treat obstetric patients, including assisting with childbirth.

27.16
Administer oxytocin.

28.0
ASSESS AND MANAGE THE NEONATE.

28.01
Describe the anatomy, physiology, pathophysiology, assessment, and routine management of the neonate.

28.02
Describe the mechanisms, effects, and treatment of hypothermia in the neonate.

28.03
Define the parameters, numerical values utilized, and the procedure for Apgar scoring.

28.04
Describe and demonstrate stimulation of and CPR for the distressed neonate.

28.05
Identify observations and physical findings to be evaluated in the neonate.

28.06
Identify the problems and equipment requirements for transportation of the neonate.

28.07
Obtain a history of, assess, and manage the neonate.

28.08
Administer oxygen to the neonate.

28.09
Suction the neonate, using DeLee Suction and a bulb syringe.

28.10
Calculate Apgar score.

29.0
ASSESS AND MANAGE BEHAVIORAL EMERGENCIES.

29.01
Define behavioral emergency.

29.02
Discuss factors that may alter the emotional status of the ill or injured.

29.03
Discuss reasons for and methods of reassuring the patient experiencing an emotional crisis.

29.04
Discuss verbal communication techniques useful in managing the emotionally disturbed patient.

29.05
Discuss means to ensure the safety of the paramedic.

29.06
Discuss circumstances concerning when bystanders and relatives should be removed from the scene.

29.07
Discuss factors which increase the risk of suicide and behaviors that are indicators of an impending suicide attempt.

29.08
Discuss the techniques that facilitate the systematic gathering and reporting of information about the disturbed patient.

29.09
Discuss techniques that are useful in managing the effects of crisis situations on the paramedic.

29.10
Discuss techniques that are useful in redirecting anxiety in relatives and bystanders.

29.11
Discuss appropriate action of the paramedic when confronted with an uncontrollable, armed patient.

29.12
Discuss those situations in which the EMT-paramedic may forcibly restrain or transport a patient.

29.13
Discuss and demonstrate techniques for restraining the violent patient.

29.14
Discuss and demonstrate techniques useful in protecting the paramedic when attacked by a violent patient.

29.15
Obtain a history of, assess, and manage patients with behavioral emergencies.

30.0
DEMONSTRATE EMPLOYABILITY SKILLS.

30.01
Conduct a job search.

30.02
Secure information about a job.

30.03
Identify documents that may be required when applying for a job.

30.04
Complete a job application.

30.05
Demonstrate competence in job interview techniques.

30.06
Identify or demonstrate appropriate responses to criticism from employer, supervisor, or other persons.

30.07
Identify acceptable work habits.

30.08
Demonstrate knowledge of how to make job changes appropriately.

30.09
Demonstrate acceptable employee health habits.

31.0
DEMONSTRATE KNOWLEDGE OF SEXUALLY TRANSMITTED DISEASES (STDs), INCLUDING AIDS.

31.01
Distinguish between fact and fallacy about the transmission and treatment of STDs.

31.02
Identify community resources and services available to the victims of STDs.

31.03
Identify at-risk behaviors which promote the spread of AIDS and the public education necessary to combat the spread of STDs.

31.04
Apply infection-control techniques designed to prevent the spread of STDs to the care of *all* patients, following CDC guidelines.

This public document was promulgated at an annual cost of $000.00, or $00.00 per copy, to display the intended outcomes and student performance standards of a vocational program and to provide a document for teachers to record student levels of achievement.

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